LG

COLOR MONITOR

SERVICE MANUAL

CHASSIS NO. : CA-116

FACTORY MODEL: FB910G

MODEL: FLATRON F900P (FB910G-UL)

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

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SPECIFICATIONS

1. PICTURE TUBE

Size	: 19 inch (Flat Slot Mask)
Deflection Angle	: 90°
Neck Diameter	: 29.1 mm
Strip Pitch	: 0.24 mm
Diagonal Size	: 457.5 mm
View Size	: 366.0 x 274.5 mm
Face Treatment	: AR-ASC (Anti-Reflective and Anti-Static Coating)

2. SIGNAL

2-1. Horizontal & Vertical Sync

1) Input Voltage Level : Low= ≤0.8V, High= ≥2.1V
2) Sync Polarity : Positive or Negative

2-2. Video Input Signal

1) Voltage Level : 0 ~ 0.7 Vp-p
   a) Color 0, 0 : 0 Vp-p
   b) Color 7, 0 : 0.467 Vp-p
   c) Color 15, 0 : 0.7 Vp-p
2) Input Impedance : 75 Ω
3) Video Color : R, G, B Analog
4) Signal Format : Refer to the Timing Chart

2-3. Signal Connector

15 Pin D-Sub Connector

2-4. Scanning Frequency

Horizontal : 30 ~ 111 kHz
Vertical : 50 ~ 160 Hz

3. POWER SUPPLY

3-1. Power Range

AC 100~120/200~240V, 50/60HZ, 2.5/1.2A
AC 200~240V, 50/60Hz, 1.2A (PFC version)

3-2. Power Consumption

MODE	H/V SYNC	POWER CONSUMPTION **(USB)**	LED COLOR
MAX		less than 135W (150W)	GREEN
NORMAL		less than 103W (118W)	GREEN
STAND-BY	OFF/ON	less than 8W (20W)	AMBER
SUSPEND	ON/OFF	less than 8W (20W)	
OFF	OFF/OFF	less than 1W (20W)	AMBER

4. DISPLAY AREA

4-1. Active Video Area :

- Max Image Size - 366.0 x 274.5mm (14.40" x 10.80")
- Preset Image Size - 350 x 262 mm (13.78" x 10.31")

4-2. Display Color : Full Colors

4-3. Display Resolution : 1600 Dots x 1200Lines/85Hz

4-4. Video Bandwidth : 235MHz

5. ENVIRONMENT

5-1. Operating Temperature: 0°C ~ 40°C (32°F ~ 103°F) (Ambient)
5-2. Relative Humidity : 10% ~ 90% (Non-condensing)
5-3. Altitude : 10,000 ft

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 466.6 mm (18.37")
Depth	: 472.5 mm (18.60")
Height	: 474 mm (18.66")

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 24.0 kg (51.82 lbs)
Gross Weight	: 28 kg (61.74 lbs)

8. USB Specifications

USB Standard	: Rev. 1.0 complied self-powered hub
Downstream power supply	: 500mA for each (MAX)
Communication speed	: 12 Mbps (Full), 1.5 Mbps (Low)
USB port	: 1 Upstream port 4 Downstream ports

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SAFETY PRECAUTIONS

SAFETY-RELATED COMPONENT WARNING!

There are special components used in this color monitor which are important for safety. ***These parts are marked ⚠ on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

CAUTION: No modification of any circuit should be attempted.
Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

SAFETY CHECK

Care should be taken while servicing this color monitor because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

FIRE & SHOCK HAZARD

An isolation transformer must be inserted between the color monitor and AC power line before servicing the chassis.

- In servicing, attention must be paid to the original lead dress specially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- All the protective devices must be reinstalled per the original design.
- Soldering must be inspected for the cold solder joints, frayed leads, damaged insulation, solder splashes, or the sharp points. Be sure to remove all foreign materials.

IMPLOSION PROTECTION

All used display tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only same type display tubes.

X-RADIATION

The only potential source of X-radiation is the picture tube. However, when the high voltage circuitry is operating properly there is no possibility of an X-radiation problem. The basic precaution which must be exercised is keep the high voltage at the factory recommended level; the normal high voltage is about 27kV. The following steps describe how to measure the high voltage and how to prevent X-radiation.

Note : It is important to use an accurate high voltage meter calibrated periodically.

- To measure the high voltage, use a high impedance high voltage meter, connect (–) to chassis and (+) to the CDT anode cap.
- Set the brightness control to maximum point at full white pattern.
- Measure the high voltage. The high voltage meter should be indicated at the factory recommended level.
- If the meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-radiation possibility, it is essential to use the specified picture tube.

CAUTION:
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

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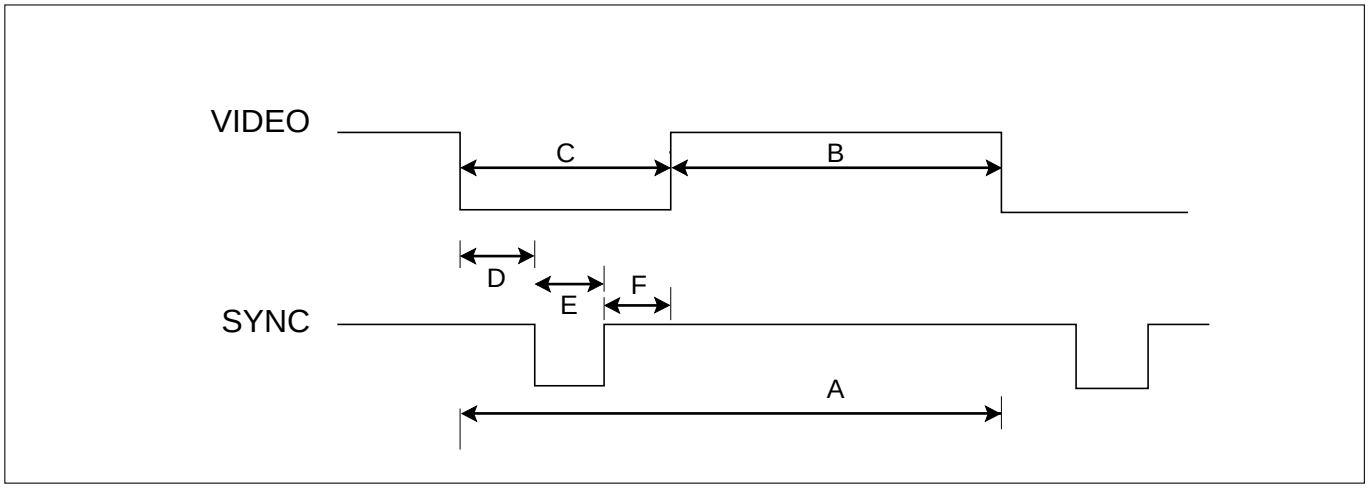
TIMING CHART



MODE				FACTORY PRESET MODE						H-MAX
			MARK	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6	MODE 7
				VESA						
HORIZONTAL	Sync Polarity			–	+	+	+	+	+	–
	Frequency	kHz		43.269	53.674	68.677	91.146	93.750	106.250	106.27
	Total Period	µs	A	23.112	18.631	14.561	10.971	10.666	9.412	9.410
	Video Active Time	µs	B	17.778	14.222	10.836	8.127	7.901	6.972	6.600
	Blanking Time	µs	C	5.334	4.409	3.725	2.844	2.765	2.441	2.910
	Front Porch	µs	D	1.556	0.569	0.508	0.406	0.316	0.297	0.460
	Sync Duration	µs	E	1.556	1.138	1.016	1.016	0.948	0.837	0.840
	Back Porch	µs	F	2.222	2.702	2.201	1.422	1.501	1.325	1.510
VERTICAL	Sync Polarity			–	+	+	+	+	+	–
	Frequency	Hz		85.008	85.061	84.997	85.024	75.000	85.000	85.000
	Total Period	ms	A	11.763	11.756	11.765	11.762	13.333	11.765	11.763
	Video Active Time	ms	B	11.093	11.178	11.183	11.235	12.800	11.294	11.292
	Blanking Time	ms	C	0.670	0.578	0.582	0.527	0.533	0.470	0.470
	Front Porch	ms	D	0.023	0.019	0.015	0.011	0.011	0.009	0.009
	Sync Duration	ms	E	0.069	0.056	0.044	0.033	0.032	0.028	0.029
	Back Porch	ms	F	0.578	0.503	0.523	0.483	0.490	0.433	0.433
Resolution				**640 X 480 85Hz**	**800 X 600 85Hz**	**1024 X 768 85Hz**	**1280 X 1024 85Hz**	**1600 X 1200 75Hz**	**1600 X 1200 85Hz**	**1600 X 1200 85Hz**
Recall				Yes	Yes	Yes	Yes	Yes	Yes	No

* Mode 7 is not factory preset mode, is used to adjust H-Size Max.

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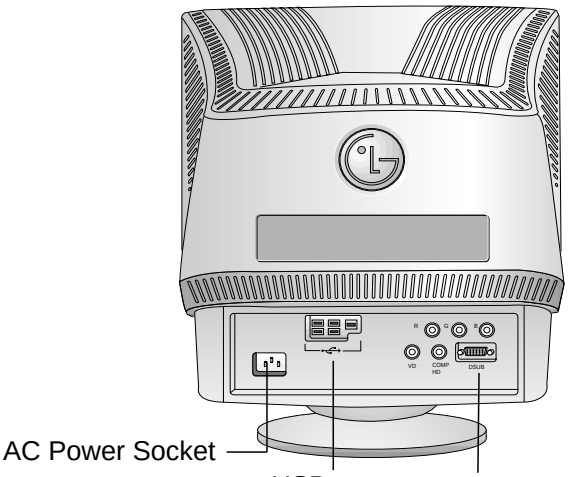
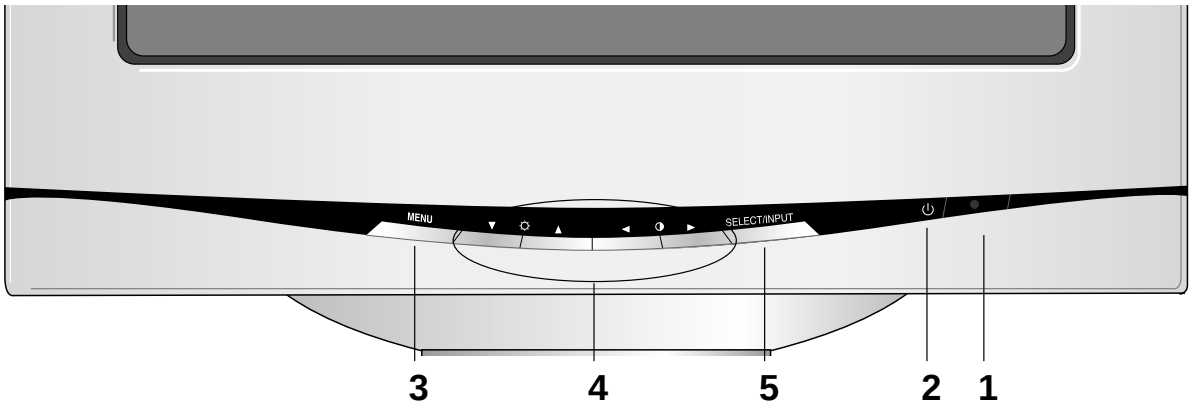
OPERATING INSTRUCTIONS

FRONT VIEW

REAR VIEW



Front Control Panel

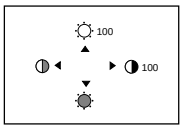


1. **Power Button**
   This button is used to turn the monitor ON and OFF.

2. **Power Indicator**
   This Indicator lights up green when the monitor operates normally. If the monitor is in stand-by, suspend or DPMS off mode, this indicator color changes to amber.

3. **MENU (or OSD) Button**
   Use this button to enter or exit the on screen display.

4. **▲▼/◀▶ Button**
   Use these buttons to choose or adjust items in the on screen display.



◀ ▶ Button Bring up Contrast adjustment

▲ ▼ Button Bring up Brightness adjustment

The Contrast and Brightness functions are also available in the On Screen Display (OSD) menu.

5. **SELECT/INPUT Button**
   Use this button to enter a selection in the on screen display or use this button to change BNC or D-Sub.

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Universal Serial Bus

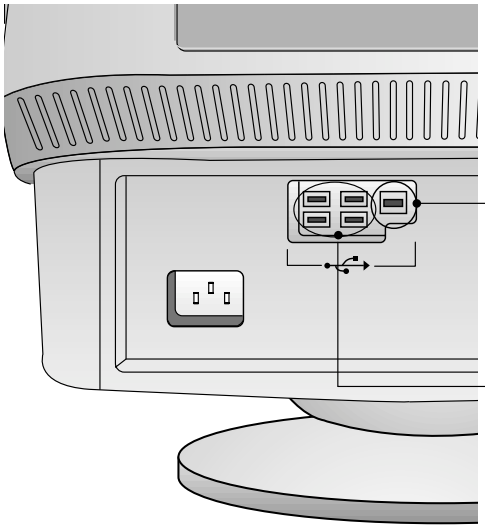
Making use of USB (Universal Serial Bus)*

USB(Universal Serial Bus) is an innovation in connecting your different desktop peripherals conveniently to your computer. By using the USB, you will be able to connect your mouse, keyboard, printer, and other peripherals to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. USB allows you to connect chain up to 120 devices on a single USB port, and you can “hot” plug (attach them while the computer is running) or unplug them while maintaining Plug and Plug auto detection and configuration. This monitor has an integrated self-powered USB hub, allowing up to 4 other USB devices to be attached it.

USB connection (Option)

(1) Connect the upstream port of the monitor to the downstream port of the USB compliant PC or another hub using the USB cable.
(2) Connect the USB compliant peripherals to the downstream ports the monitor.

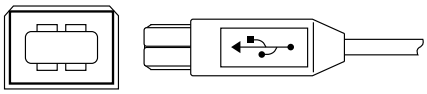
*USB(Universal Serial Bus) is supported WINDOWS98 and Higher.



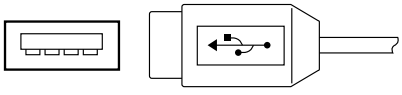
USB Upstream Port
To USB downstream port of the USB compliant PC or another hub cable

USB Downstream Ports
Connect the cables from USB compliant peripherals-such as keyboard, mouse, printer, scanner, etc.

USB Upstream connector



USB Downstream connector



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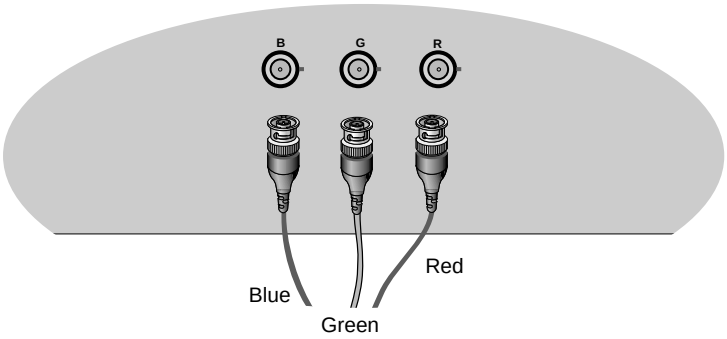
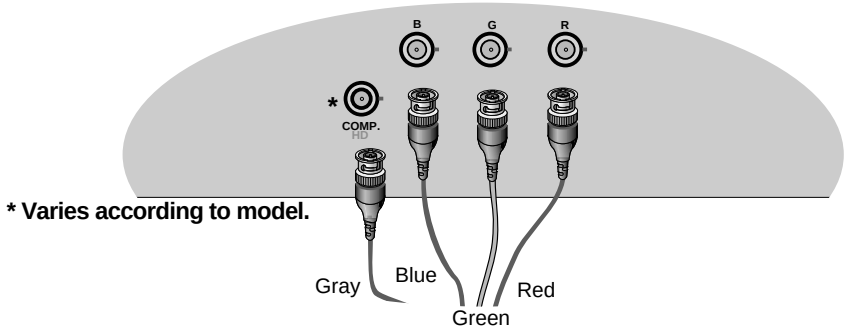
Using the BNC connector with other types of video cards

Using the BNC connectors with other types of video cards. Follow the example that fits your needs.

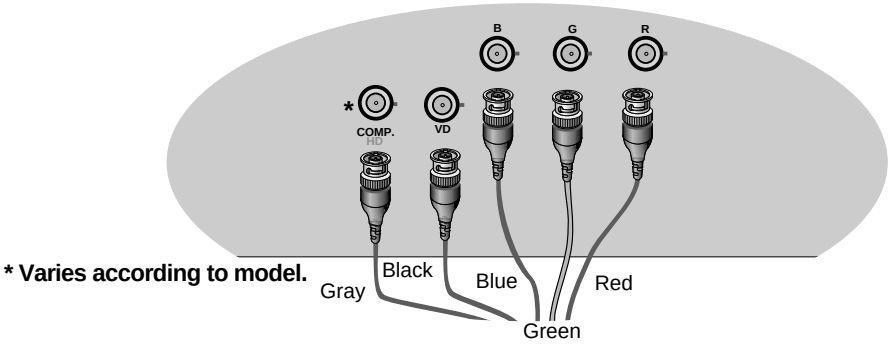
1. In case of using a composite sync on green video signal(Sync On Green):
Connect each R,G and B video signals to BNC receptacles on the back of the monitor.



2. In case of using an external composite sync signal:
Connect each R, G and B video signals and composite sync signal to the BNC receptacles on the rear panel.



3. In case of using a separate horizontal and vertical sync signal:
Connect each R, G and B video signals and the horizontal and vertical sync signal to BNC receptacles on rear panel.



NOTE
- This package does not include the BNC connectors but you can purchase them at your local computer stores.
- This monitor does not support the DDC function, if you use the 5 BNC connectors with other types of video cards.

HD : Horizontal Drive
VD : Vertical Drive
COMP : Composite

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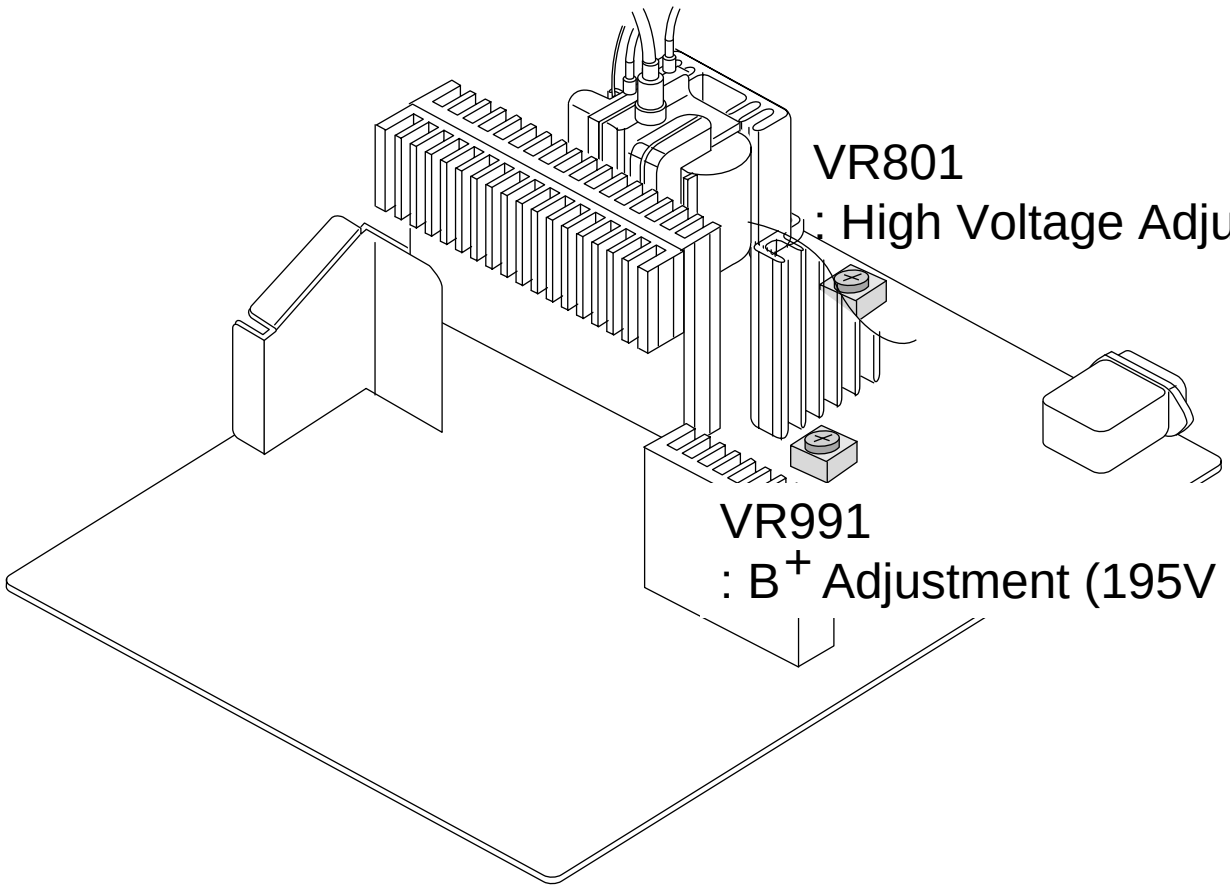

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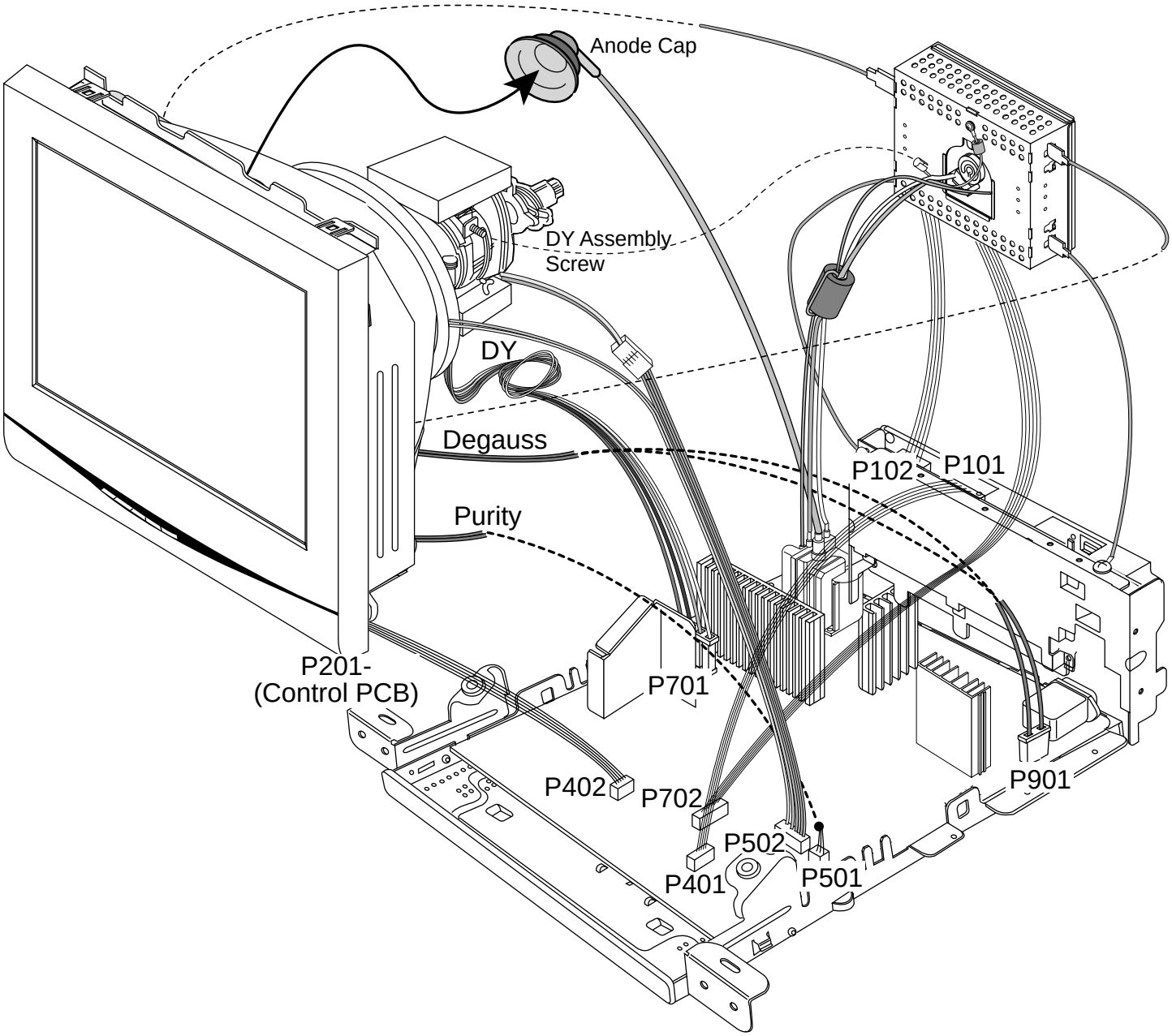

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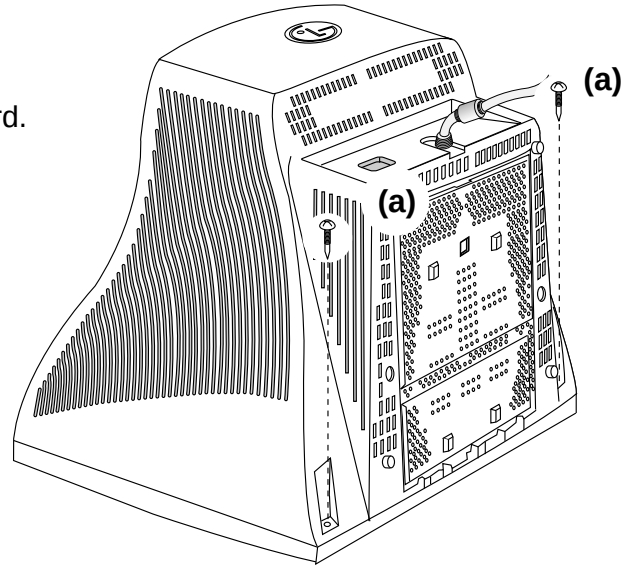
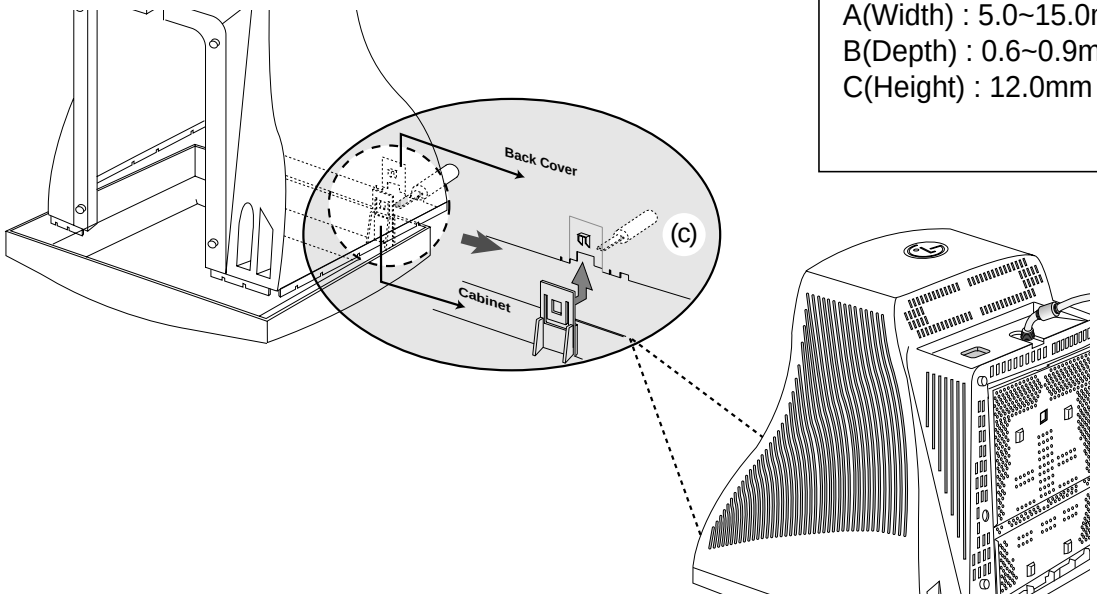
1. TILT/SWIVEL & BACK COVER REMOVAL

1) Set the monitor face downward.
2) Carefully remove the Tilt/Swivel by pulling it upward.
3) Remove two screws (a).

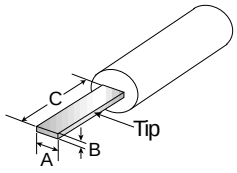


4) Release the latch (c). (See Figure. 1 and Tip Spec.)
5) Slide the Back Cover away from the Front Cabinet of the monitor.

Figure.1



Tip Spec.
A(Width) : 5.0~15.0mm
B(Depth) : 0.6~0.9mm
C(Height) : 12.0mm



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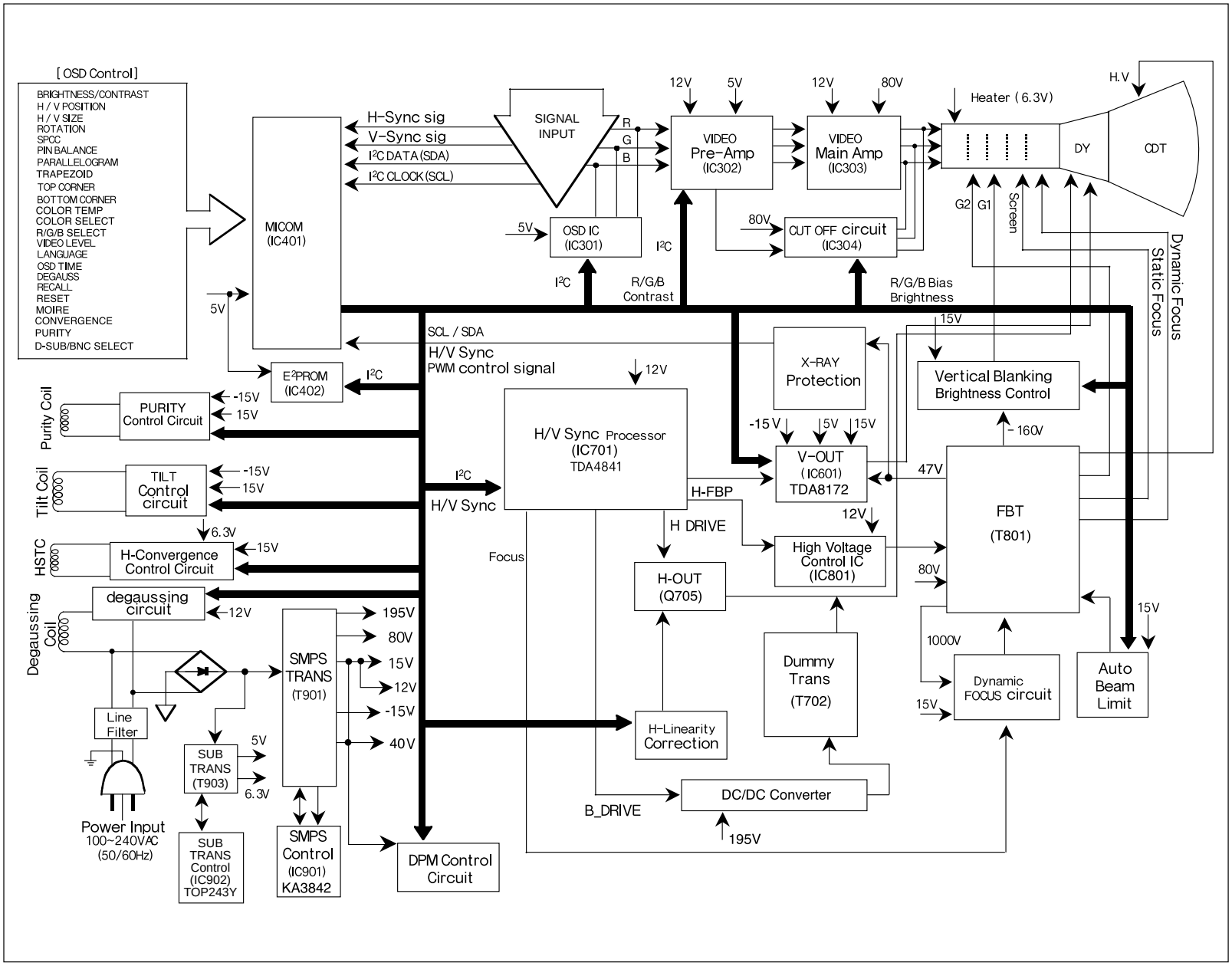

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DESCRIPTION OF BLOCK DIAGRAM

1. Line Filter & Associated Circuit.

This is used for suppressing noise of power input line flowing into the monitor and/or some noise generated in this monitor flowing out through the power input line.That is to say, this circuit prevents interference between the monitor and other electric appliances.

2. Degauss Circuit & Coil.

The degauss circuit consists of the degaussing coil, the PTC (Positive Temperature Coefficient) thermistor (TH901), and the relay (RL901). This circuit eliminates abnormal color of the screen automatically by degaussing the slot mask in the CDT when turn on the power switch.
When you need to degauss while using the monitor, select DEGAUSS on the OSD menu.

3. SMPS (Switching Mode Power Supply).

This circuit works with power of 100~240V or 200~240V (50/60Hz) specially for PFC version.

The operation procedure is as follows:

1) AC input voltage is rectified and smoothed by the bridge diode (D901) and the capacitor (C908).
2) The rectified voltage (DC voltage) is applied to the primary coil of the transformer (T901, T902).
3) The control IC (IC901) generates switching pulse to turn on and off the primary coil of the transformer (T901) repeatedly.
4) The control IC (IC902) generates switching pulse to turn on and off the primary coil of the transformer (T902) repeatedly.
5) Depending on the turn ratio of the transformer, the secondary voltages appear at the secondary coil of the transformer (T901).
6) These secondary voltages are rectified by each diode (D951, D952, D971, D972, D973, D974, D975, D976) and operate the other circuits. (Deflection, Video Amplifier, etc.)

4. Display Power Management Circuit.

This circuit control power consumption of the monitor by detecting H and V sync signal. There are stand-by and suspend mode. When no horizontal or vertical sync signal input, the circuit consists of Q951, Q952, IC904, IC952 and IC401 control signal becomes stand-by and suspend mode. It's power consumption is below 8W. When no horizontal and vertical sync signal input, it's power consumption is below 1W.

5. X-ray Protection.

This circuit detects the rectified DC voltage comes from the FBT pin 4. If the high voltage of the FBT reaches up to about 30kV (abnormal state), H.V control (IC801) detects. It stops B^+ voltage supplied to the FBT (T801), and high voltage is not be generated, (In the normal state, the high voltage is about 27kV.)

6. Micom(Microprocessor) Circuit.

The operating procedure of Micom (Microprocessor) and its associated circuit is as follows:

1) H and V sync signal is supplied from Signal Cable to the Micom (IC401).
2) The Micom (IC401) distinguishes polarity and frequency of H and V sync.
3) The Micom controls each OSD function signals. (H-size, H-position, V-size, etc.)
4) The controlled data of each mode is stored in IC402. User can adjust screen condition by each OSD function. The data of the adjust screen condition is stored automatically.

7. Horizontal and Vertical Synchronous Processor.

This circuit generates the horizontal drive pulse and the vertical drive pulse by taking sync-signal from Signal Cable. This circuit consists of the TDA4841 (IC701) and the associated circuit.

8. Oscillating Circuit for D/D Converter.

This circuit generates the pulse wave which has the horizontal period by taking the output of the TDA4841(IC701).

9. D/D (DC to DC) Converter.

This circuit supplies DC voltage to the horizontal deflection output circuit by decreasing DC 195V which is the secondary voltage of the SMPS in accordance with the input horizontal sync signal.

10. D/D Drive & Convert Circuit.

This circuit is used for supplying B^+ voltage to horizontal deflection output transistor (Q763).

11. Horizontal Deflection Output Circuit.

This circuit makes the horizontal deflection by supplying the saw-tooth current to the horizontal deflection yoke.

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12. High Voltage Output & FBT (Flyback Transformer).

The high voltage output circuit is used for generating pulse wave to the primary coil of the FBT (Flyback Transformer (T801)). A boosted voltage (about 27kV) appears at the secondary of the FBT and it is supplied to the anode of the CDT.
And there are another output voltages such as the dynamic focus voltage.

13. H-Linearity Correction Circuit.

This circuit corrects the horizontal linearity for each horizontal sync frequency.

14. Vertical Output Circuit.

This circuit takes the vertical wave from the TDA4841(IC701) and performs the vertical deflection by supplying the saw-tooth wave current from the TDA8172 (IC601) to the vertical deflection yoke.

15. Dynamic Focus Output Circuit.

This circuit takes H and V parabola wave from the TDA4841(IC701), and amplifies these waves to offer to the FBT (T801).

16. H & V Blanking and Brightness Control.

This circuit eliminates the retrace line by supplying a negative pulse to the G1 of the CDT.

17. Image Rotation (Tilt) Circuit.

This circuit corrects the tilt of the screen by supplying the image rotation signal to the tilt coil which is attached to the CDT near the deflection.

18. Static Convergence Control Circuit.

This circuit corrects the convergence of the screen by supplying the convergence signal to the 4H (STC) coil which is attached to the CDT near the deflection.

19. Moire Reduction Circuit

This circuit reduce interference between the periodical display pattern and the CDT's slot (or dot).
The positions of every other one dot video signal beams (red, green, and blue beam) are shifted finely, thus reducing interference.

20. OSD Circuit.

This circuit is used for performing the OSD (On-Screen- Display) function.
When a user selects the OSD Select/Adjustment control, the adjustment status displays on the screen.

21. Video Pre-Amp Circuit.

This circuit amplifies the analog video signal from 0-0.7V to 0-4V. This circuit is operated by taking the clamp, R, G, B drives, and contrast signals from the Micom (IC401).

22. Video Output Amp Circuit.

This circuit amplifies the video signal which comes from the video pre-amp circuit and amplified video signal is applied to the CDT cathode.

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ADJUSTMENT

GENERAL INFORMATION

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several adjustments may be required.
Adjustment should be following procedure and after warming up for a minimum of 30 minutes.

- Alignment appliances and tools.
  - IBM compatible PC.
  - Programmable Signal Generator.
    (eg. VG-819 made by Astrodesign Co.)
  - EPROM or EEPROM with saved each mode data.
  - Alignment Adaptor and Software.
  - Digital Voltmeter.
  - White Balance Meter.
  - Luminance Meter.
  - High-voltage Meter.

AUTOMATIC AND MANUAL DEGAUSSING

The degaussing coil is mounted around the CDT so that automatic degaussing when turn on the monitor. But a monitor is moved or faced in a different direction, become poor color purity cause of CDT magnetized, then press DEGAUSSING on the OSD menu.

ADJUSTMENT PROCEDURE & METHOD

- Install the cable for adjustment such as run the alignment program on the DOS for IBM compatible PC.
- Set external Brightness and Contrast volume to max position.

1. Adjustment for B^+ Voltage.

1) Display cross hatch pattern at Mode 6.
2) Adjust C983 (+) voltage to 195V ± 0.5V with **VR991**.

2. Adjustment for High-Voltage.

1) Display cross hatch pattern at Mode 6.
2) Adjust CDT Anode voltage to 27kV ± 500V with **VR801**.

3. Adjustment for Horizontal Raster Center.

1) Display cross hatch pattern at Mode 6.
2) Adjust the Back Raster should be center of the screen with SW771.

4. Adjustment for Factory Mode (Preset Mode).

1) Display cross hatch pattern at Mode 1~6.
2) Run alignment program for FB910G on the IBM compatible PC.
3) EEPROM → ALL CLEAR → Y(Yes) command.
   <Caution> *Do not run this procedure unless the EEPROM is changed. All data in EEPROM (mode data and color data) will be erased.*
4) Display cross hatch pattern at mode 7.
   DIST. ADJ. → SIZE MAX command. Save H-Size Max at bezel size exactly.
5) COMMAND → PRESET START → Y(Yes) command.
6) Display cross hatch pattern at Mode 6.
7) DIST. ADJ. → FOS. ADJ command.
8) Adjust H-POSITION as arrow keys to center of the screen.
9) Adjust H-SIZE as arrow keys to 350 ± 2mm.
10) Adjust V-POSITION as arrow keys to center of the screen.
11) Adjust V-SIZE as arrow keys to 262 ± 1mm.
12) Adjust TRAPEZOID as arrow keys to be the best condition.
13) DIST. ADJ. → BALANCE DATA command.
14) Adjust TILT as arrow keys to be the best condition.
15) Adjust balance of Pin-Balance as arrow keys to be the best condition.
16) Adjust parallelogram as arrow keys to be the best condition.
17) Save of the Mode.
18) Save of the System.
19) Display from Mode 6 to Mode 1 and repeat above from number 6) to 18).
20) COMMAND → PRESET EXIT → Y (Yes) command.

5. Adjustment for White Balance and Luminance.

1) Set the White Balance Meter.
2) Press the DEGAUSSING on the OSD menu for demagnetization of the CDT.
3) Display color 0,0 pattern at Mode 6.
4) COMMAND → PRESET START → Y(Yes) command.
5) Set Bightness and Contrast to max position.
6) COLOR ADJ. → LUMINANCE command of the alignment program.
7) COLOR ADJ. → BIAS ADJ. command of the alignment program.
8) Check whether blue color or not at R-BIAS and G-BIAS to min position, Sub-Brightness to 90 position, B-BIAS to 68 position. If it's not blue color, the monitor must repair.
9) Adjust Screen control on the FBT to 0.15 ± 0.02FL of the raster luminance.
10) Adjust R-BIAS and G-BIAS command to x=0.283 ± 0.006 and y=0.298 ± 0.006 on the White Balance

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11) Display color 15,0 box full white pattern at mode 6.
12) DRIVE ADJ command.
13) Set B-DRIVE to 97 at DRIVE of the alignment program.
14) Adjust R-DRIVE and G-DRIVE command to white balance x=0.283 ± 0.003 and y=0.298 ± 0.003 on the White Balance Meter with PC arrow keys.
15) Display color 15,0 box pattern(70x70mm) at Mode 6.
16) Adjust SUB-CONTRAST command to 40±1FL of the raster luminance.
17) Display color 15,0 full white pattern at Mode 6.
18) COLOR ADJ. → LUMINANCE → ABL command.
19) Adjust ABL to 30 ± 1FL of the luminance.
20) Exit from the program.

6. Adjustment for Focus.

1) Display H character in full screen at Mode 6.
2) Adjust two Focus control on the FBT that focus should be the best condition.

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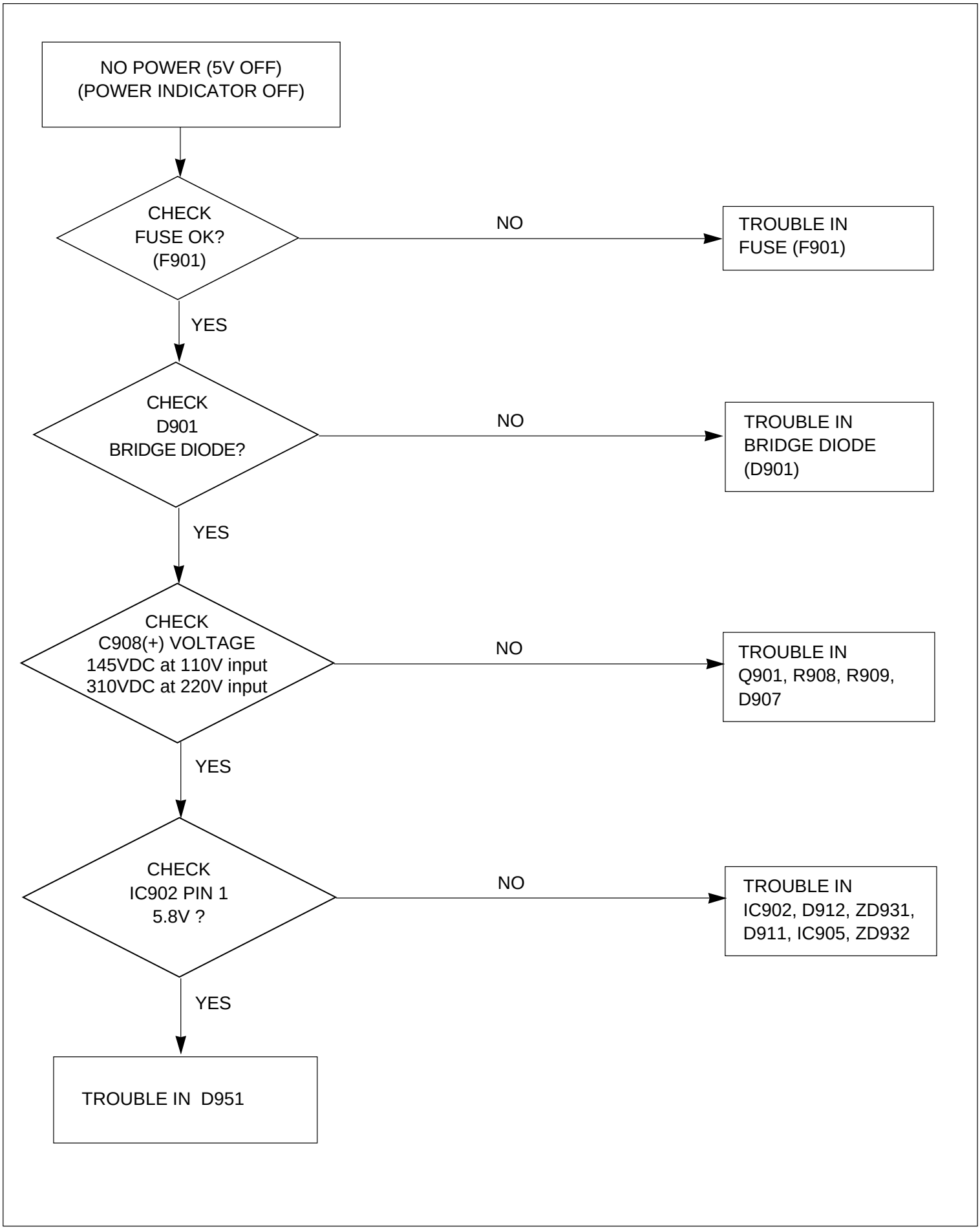
TROUBLESHOOTING GUIDE

1. NO POWER-1



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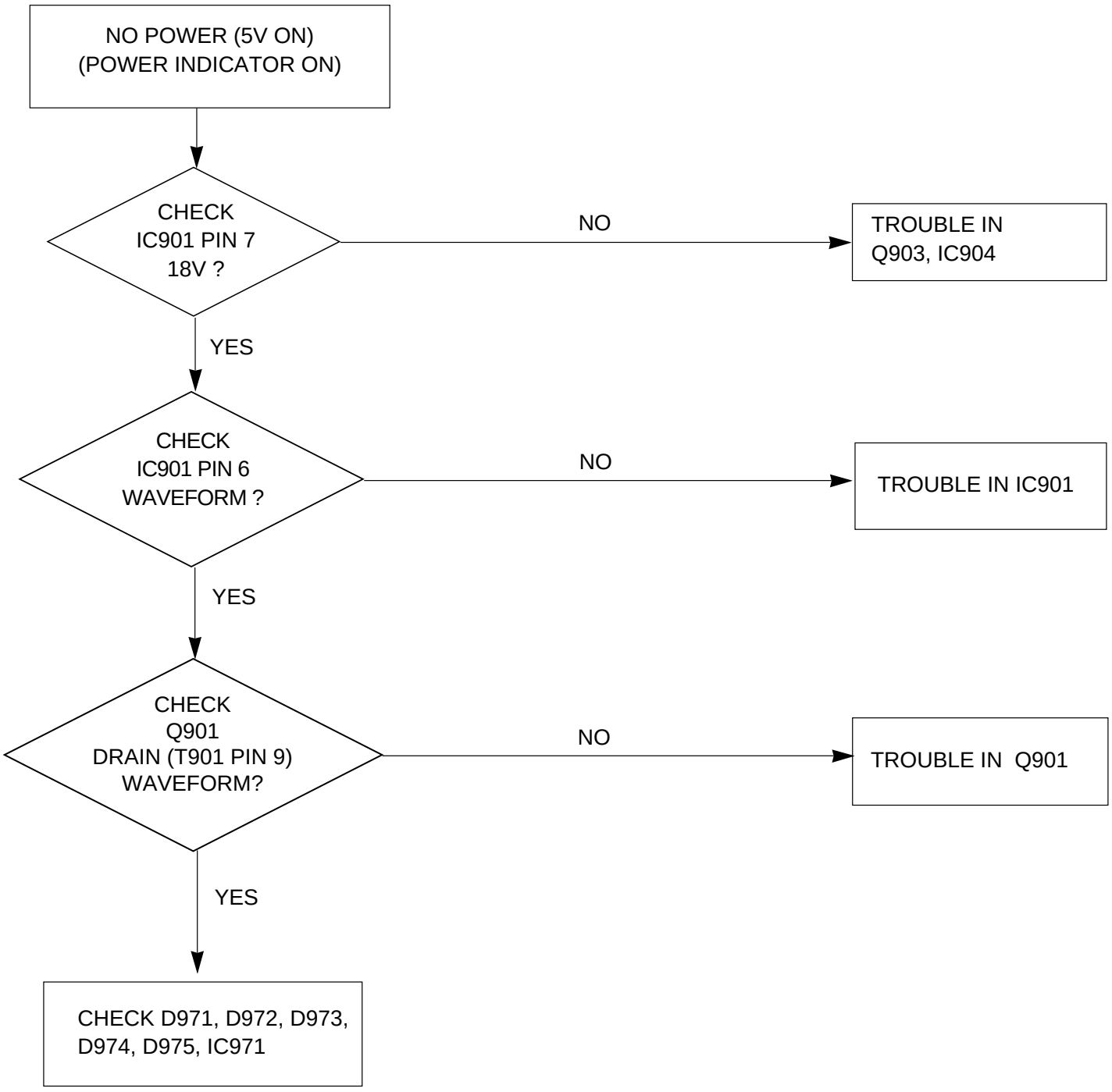
2. NO POWER-2



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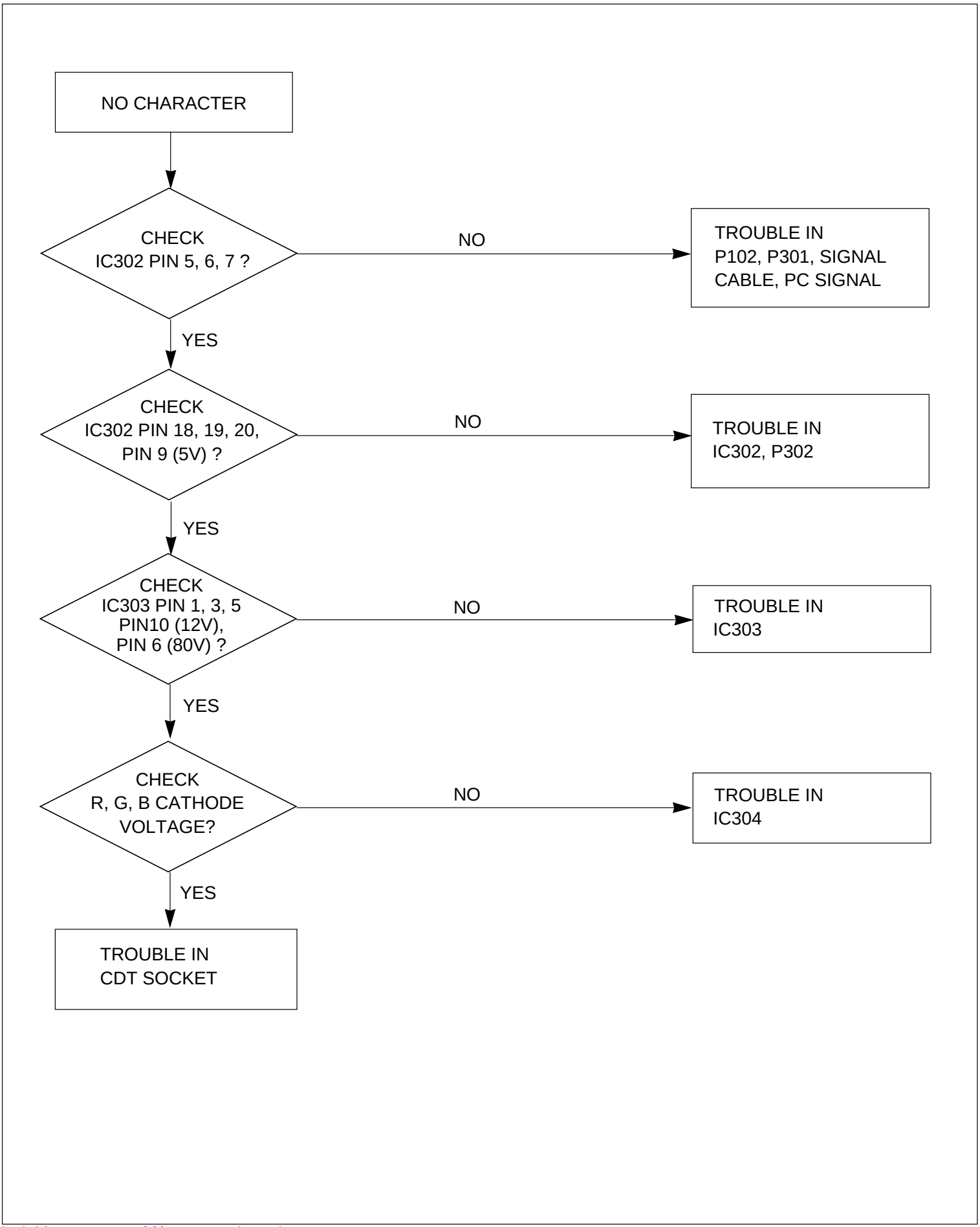
3. NO CHARACTER



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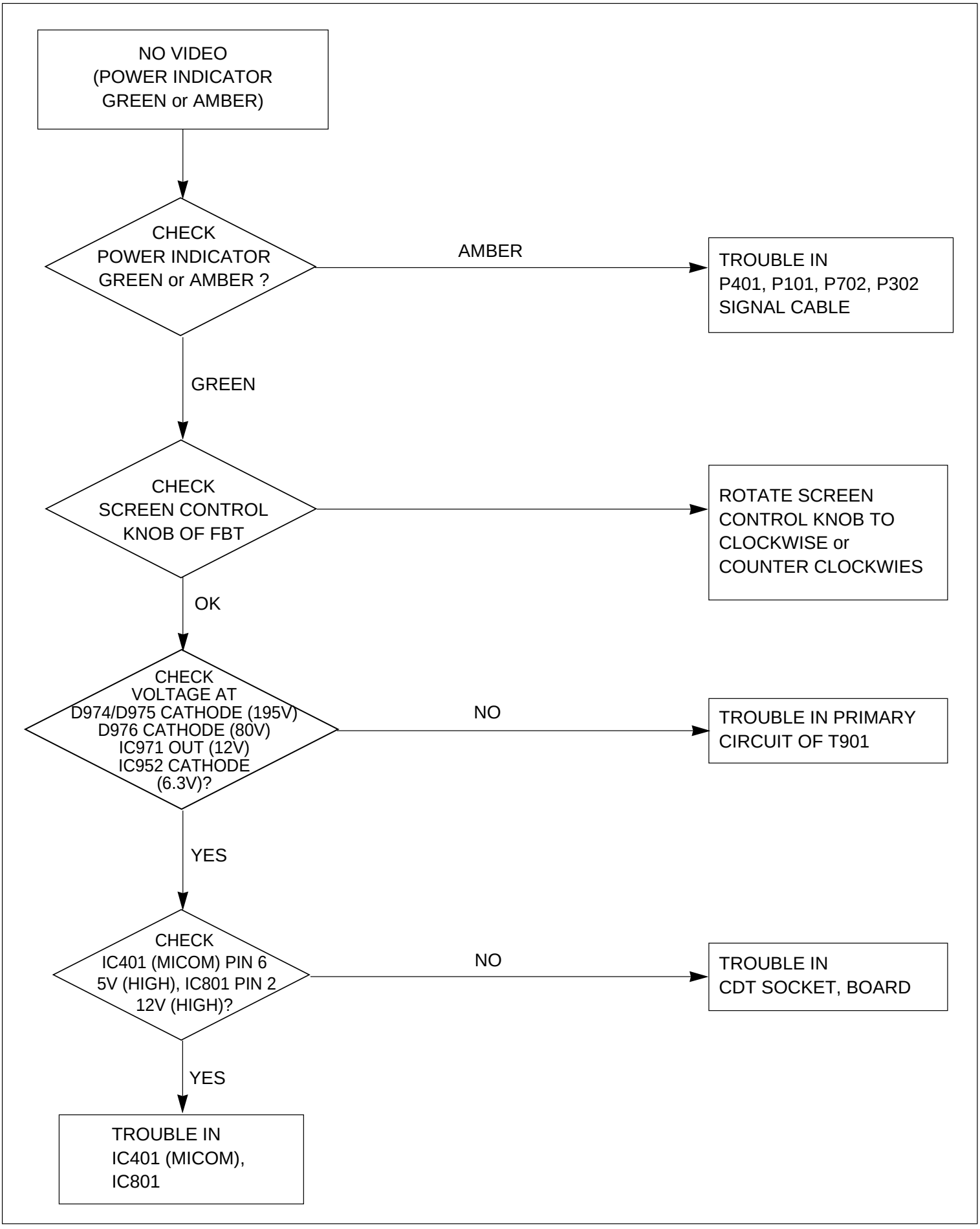
4. NO RASTER



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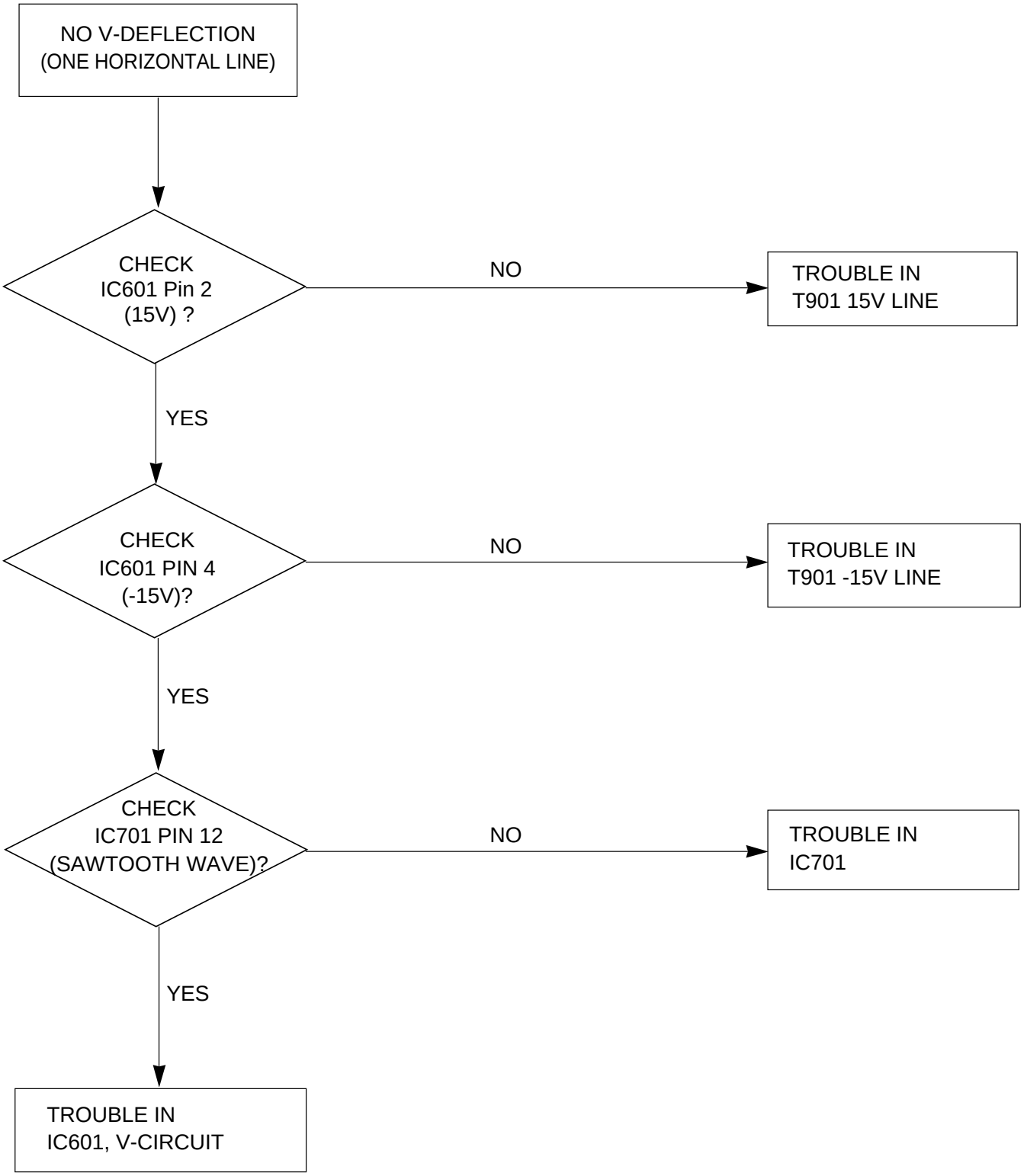
5. NO VERTICAL DEFLECTION



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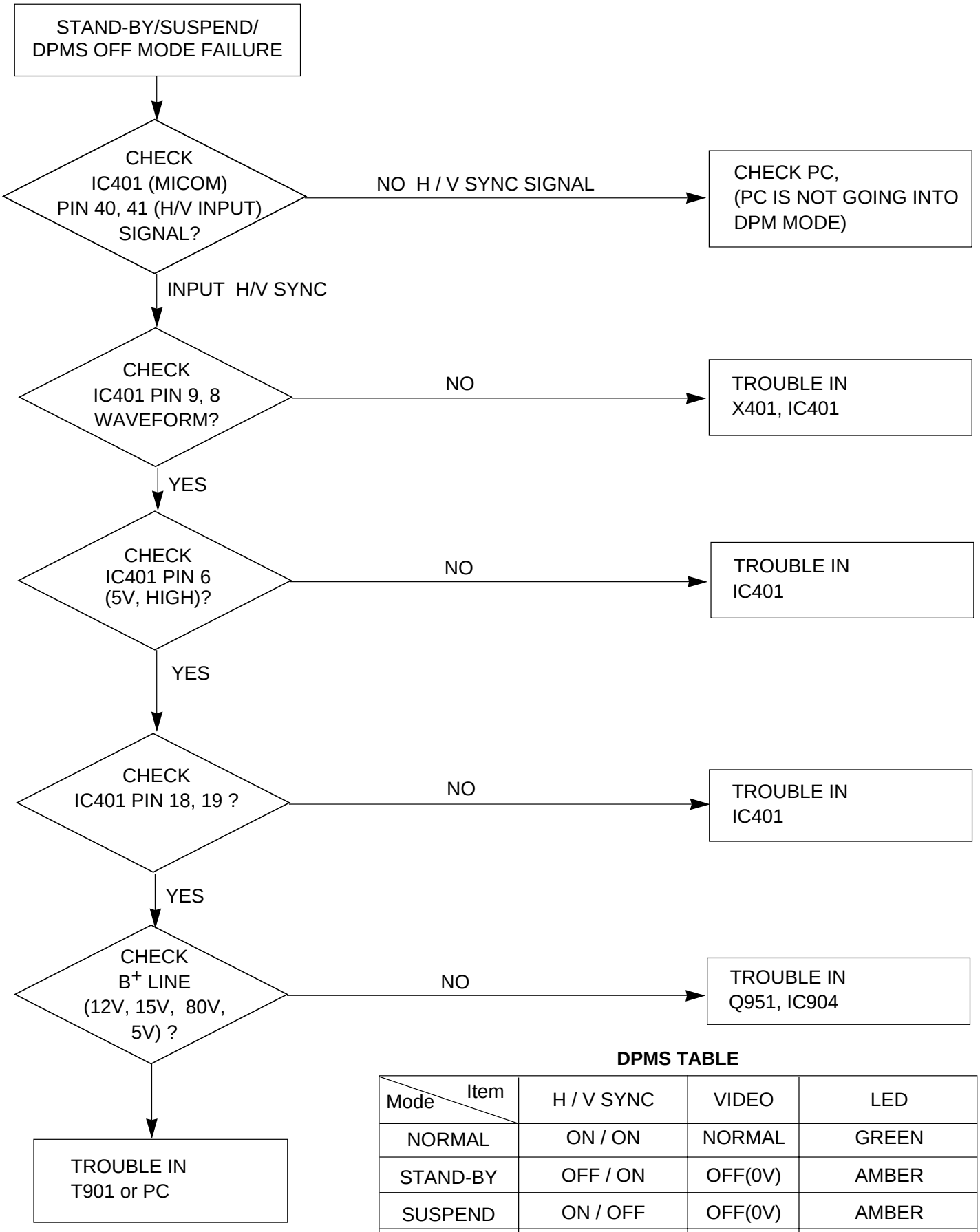
6. TROUBLE IN DPM



DPMS TABLE

Mode \ Item	H / V SYNC	VIDEO	LED
NORMAL	ON / ON	NORMAL	GREEN
STAND-BY	OFF / ON	OFF(0V)	AMBER
SUSPEND	ON / OFF	OFF(0V)	AMBER
OFF	OFF / OFF	OFF(0V)	AMBER

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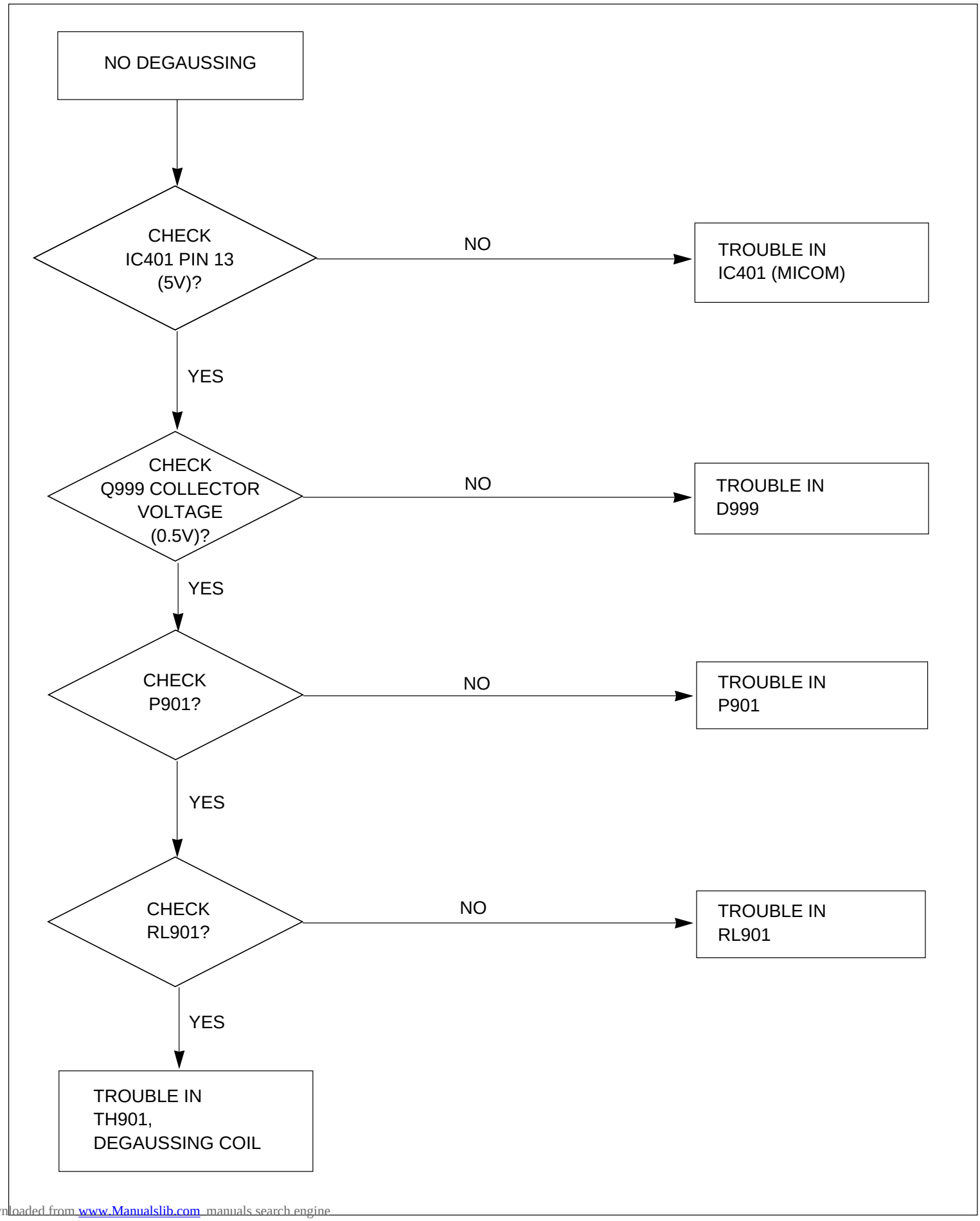
7. NO DEGAUSSING



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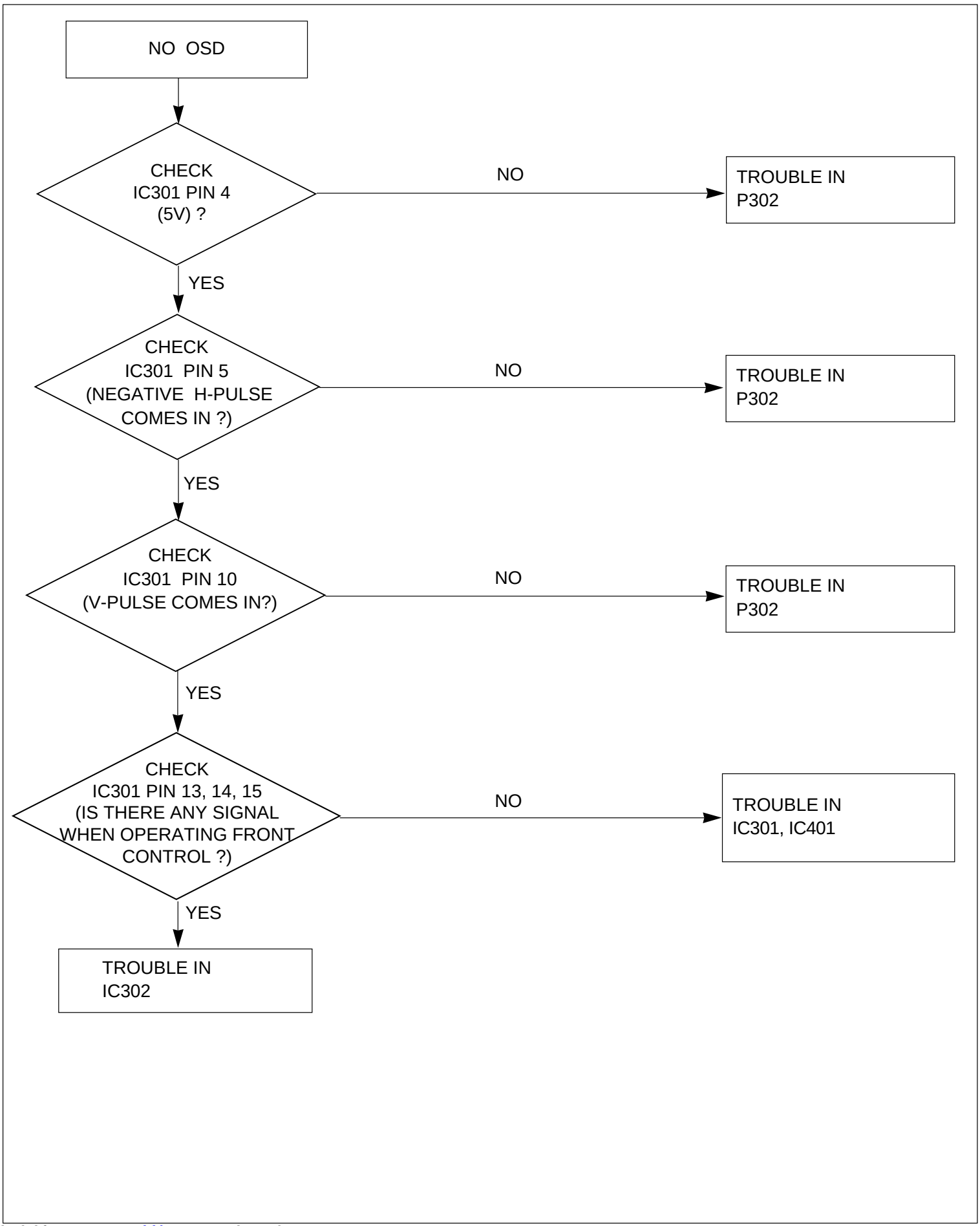
8. TROUBLE IN OSD



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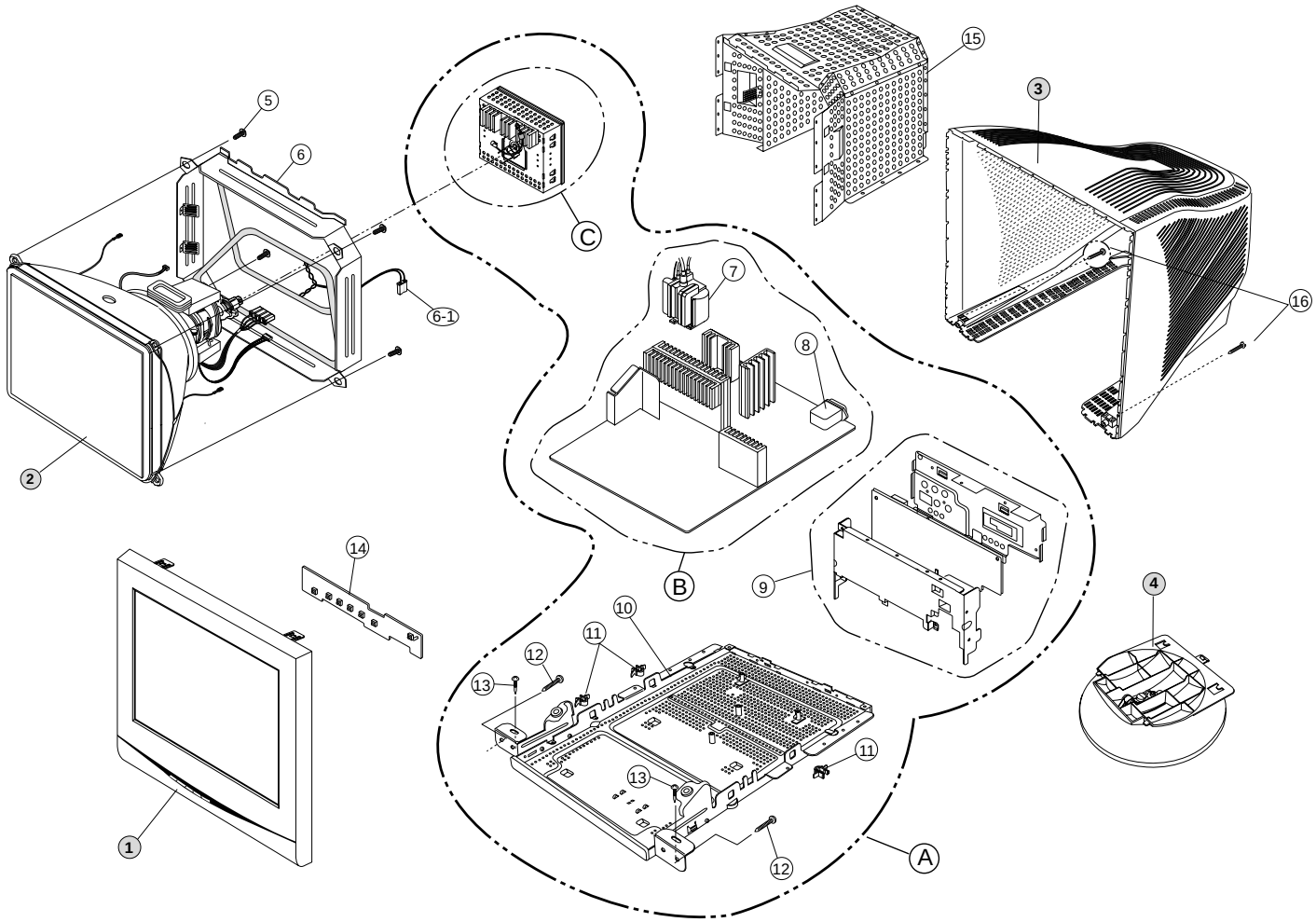
EXPLODED VIEW



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EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC081B	CABINET ASSEMBLY, FB910G BRAND 3090TKC075 89483
2	2423GG3E41E	CDT(CIRC), M46QDG423X 05NPLD LG-PHILIPS Displays 107KHZ 29.1 mm
3	3809TKC045E	BACK COVER ASSEMBLY, FB910G 3808TKC044 PFC/TCO99
4	3043TKK096A	TILT SWIVEL ASSEMBLY, FB990G TKT064 FB990G
5	339-002J	SCREW ASSY PHP+5*25 (FZMW1)+GW18
6	4951TKS041J	METAL ASSEMBLY, FRAME FB910G,PEM NUT BOTTOM FRAME
6-1	6140TC2017A	COIL,DEGAUSSING, - GET 0.6*90T,14 OHM,WITH PURITY FB790G
7	6174T13010C	FBT (FLY BACK TRANSFORMER), FQM19A008,EB990G SAMSUNG 19" T801
8	6200TJB004A	FILTER(CIRC),EMI 03ME3G(3) DELTA FB915B # SC901
9	6871TKT284A	PWB(PCB) ASSEMBLY,INTERFACE, FB910G INTERFACE TOTAL BRAND USB&5BNC
10	4951TKK090B	METAL ASSEMBLY, SHIELD BOTTOM-FB910G
11	4930TKK031C	HOLDER, PCB FIX , PC+ABS
12	332-102E	SCREW, PTP+4*16(MSWR/FZMY)
13	339-008B	SCREW, MP+3*8(FZMY)+SW3+RW3
14	6871TST303A	PWB(PCB) ASSEMBLY,SUB, FB910G CONTROL TOTAL BRAND
15	4815TKT009A	SHIELD ASSY TOP (FB915B)
16	332-102E	SCREW, PTP+4*16(MSWR/FZMY)
A	3313T19045B	MAIN TOTAL ASSEMBLY, FB910G BRAND CA-116
B	6871TMT321B	PWB(PCB) ASSEMBLY,MAIN, FB910G ALRDP BRAND CA-116 TOTAL
C	6871TVT286A	PWB(PCB) ASSEMBLY,VIDEO FB910G VIDEO TOTAL BRAND 107KHZ

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REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

DATE: 2002. 7. 24.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		CAPACITORS		
		C101	0CE4764H638	47U SRA 25V M FM5 TP(5)
		C102	0CE4764H638	47U SRA 25V M FM5 TP(5)
		C103	0CE4764H638	47U SRA 25V M FM5 TP(5)
		C104	0CE4764H638	47U SRA 25V M FM5 TP(5)
		C105	0CE4764H638	47U SRA 25V M FM5 TP(5)
		C106	0CE4764H638	47U SRA 25V M FM5 TP(5)
		C107	0CE1074F638	100UF SRA,SS 16V M FM5 TP 5
		C108	0CH3104K946	100000PF 50V Z F 2012 R/TP
		C109	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C110	0CN1040K949	0.1M 50V Z F TA52
		C201	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C201	0CN1040K949	0.1M 50V Z F TA52
		C202	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C203	0CH3104K946	100000PF 50V Z F 2012 R/TP
		C204	0CE1054K638	1 UF SRA,SS 50V M FM5 TP 5
		C205	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C206	0CH3103K516	10000PF 50V K B 2012 R/TP
		C207	0CH3104K946	100000PF 50V Z F 2012 R/TP
		C208	0CE1054K638	1 UF SRA,SS 50V M FM5 TP 5
		C209	0CH3104K946	100000PF 50V Z F 2012 R/TP
		C210	0CN1040K949	0.1M 50V Z F TA52
		C211	0CN1040K949	0.1M 50V Z F TA52
		C212	0CN1040K949	0.1M 50V Z F TA52
		C213	0CE1074F638	100UF SRA,SS 16V M FM5 TP 5
		C214	0CE1074F638	100UF SRA,SS 16V M FM5 TP 5
		C215	0CE1074F638	100UF SRA,SS 16V M FM5 TP 5
		C216	0CE1074F638	100UF SRA,SS 16V M FM5 TP 5
		C301	0CE477CF618	470UF SHL 16V M FL TP5
		C302	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C303	181-288B	MKT 100V 104JTR PHS26104
		C304	181-288N	MKT 100V 103JTR PHS86103
		C305	181-288N	MKT 100V 103JTR PHS86103
		C306	0CN1040K949	0.1M 50V Z F TA52
		C307	0CN1040K949	0.1M 50V Z F TA52
		C308	0CN1040K949	0.1M 50V Z F TA52
		C309	181-288B	MKT 100V 104JTR PHS26104
		C310	0CK1040K945	0.1UF 50V Z F TR
		C312	181-288B	MKT 100V 104JTR PHS26104
		C313	181-288B	MKT 100V 104JTR PHS26104
		C314	181-288B	MKT 100V 104JTR PHS26104
		C315	181-288B	MKT 100V 104JTR PHS26104
		C316	0CK10302945	0.01UF 2KV Z F TR
		C317	0CE106CN638	10UF SHL,SD 100V M FM5 TP 5
		C318	181-288B	MKT 100V 104JTR PHS26104
		C319	0CK10302945	0.01UF 2KV Z F TR
		C320	0CE107CN630	100U SHL 100V M FM5
		C321	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C322	0CN1040K949	0.1M 50V Z F TA52

DATE: 2002. 7. 24.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C323	0CE476EN618	47UF KMG 100V M FL TP 5
		C324	181-288B	MKT 100V 104JTR PHS26104
		C325	0CC3300K415	33P 50V J NP0 TP
		C326	181-288B	MKT 100V 104JTR PHS26104
		C327	181-288B	MKT 100V 104JTR PHS26104
		C329	181-288B	MKT 100V 104JTR PHS26104
		C330	181-288B	MKT 100V 104JTR PHS26104
		C332	181-288E	MKT 100V 474JTR PHS 26474
		C333	181-288E	MKT 100V 474JTR PHS 26474
		C334	181-288E	MKT 100V 474JTR PHS 26474
		C336	0CK2710W515	270P 500V K B TS
		C337	181-288B	MKT 100V 104JTR PHS26104
		C340	0CE477CF618	470UF SHL 16V M FL TP5
		C341	181-288M	MKT 63V 105KTR PHS15105
		C342	0CC2200W415	22PF 500V J NP0 TR
		C343	0CK1010K515	100PF 50V K B TR
		C345	0CK22202510	2200P 2KV K B S
		C346	0CC47001505	47PF 1KV K SL TR
		C347	0CC47001505	47PF 1KV K SL TR
		C348	0CK1040K945	0.1UF 50V Z F TR
		C349	181-288E	MKT 100V 474JTR PHS 26474
		C350	0CK2210K515	220P 50V K B TS
		C355	0CH3104K946	100000PF 50V Z F 2012 R/TP
		C356	0CN6810K519	680P 50V K B TA52
		C357	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C401	0CK2710K515	270P 50V K B TS
		C402	0CK2710K515	270P 50V K B TS
		C403	0CC0400K115	4P 50V D NP0 TS
		C404	0CC0400K115	4P 50V D NP0 TS
		C405	0CK1040K945	0.1UF 50V Z F TR
		C406	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C407	0CE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C408	0CK2710K515	270P 50V K B TS
		C409	0CK1010K515	100PF 50V K B TR
		C410	0CK1040K945	0.1UF 50V Z F TR
		C411	0CN1040K949	0.1M 50V Z F TA52
		C413	0CK1040K945	0.1UF 50V Z F TR
		C501	181-288E	MKT 100V 474JTR PHS 26474
		C502	0CN1040K949	0.1M 50V Z F TA52
		C503	0CN1040K949	0.1M 50V Z F TA52
		C504	0CN1040K949	0.1M 50V Z F TA52
		C505	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C506	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C507	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C511	181-288E	MKT 100V 474JTR PHS 26474
		C514	0CN1040K949	0.1M 50V Z F TA52
		C521	0CK1040K945	0.1UF 50V Z F TR
		C601	0CQ3921N419	0.0039UF D 100V J PE NI TP
		C602	0CE227CK618	220U SHL 50V M FL TP5

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C603	0CE108EH618	1000UF KMG 25V M FL TP5
		C604	0CE108EH618	1000UF KMG 25V M FL TP5
		C605	0CN1040K949	0.1M 50V Z F TA52
		C606	0CK2710K515	270P 50V K B TS
		C607	181-288C	MKT 100V 224JTR PHS 26224
		C608	0CK1040K945	0.1UF 50V Z F TR
		C609	0CE225CK638	2.2UF SHL,SD 50V M FM5 TP 5
		C611	0CE108EH618	1000UF KMG 25V M FL TP5
		C621	181-288N	MKT 100V 103JTR PHS86103
		C622	0CK2220K515	2200P 50V K B TS
		C623	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C701	0CZZTFT001J	ECQB1H562JM3 562J 50V TP5.0 MA
		C702	0CZZTFT001M	ECQB1H103JM3 103J 50V TP5.0 MA
		C703	0CZZTFT001L	ECQB1H822JM3 822J 50V TP5.0 MA
		C704	181-288B	MKT 100V 104JTR PHS26104
		C705	181-288Q	MKT 100V 154JTR PHS26154
		C706	181-288B	MKT 100V 104JTR PHS26104
		C707	0CZZTFT001Z	ECQB1H104JM3 104J 50V TP5.0 MA
		C708	0CQ6821N419	6800PF 100V J PE NI TP
		C709	181-288B	MKT 100V 104JTR PHS26104
		C710	181-475E	222J 11.5*10.0*6.0*5.0 100V J
		C711	181-288D	MKT 100V 473JTR PHS26473
		C712	0CE227CH638	220UF SHL,SD 25V M FM5 TP 5
		C713	0CN1040K949	0.1M 50V Z F TA52
		C721	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C731	0CE227CF638	220UF SHL,SD 16V M FM5 TP 5
		C732	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C734	0CK1040K945	0.1UF 50V Z F TR
		C735	0CN1040K949	0.1M 50V Z F TA52
		C736	0CN1040K949	0.1M 50V Z F TA52
		C751	181-288B	MKT 100V 104JTR PHS26104
		C752	0CQ2221N419	2200PF 100V J PE NI TP
		C753	0CQ2221N419	2200PF 100V J PE NI TP
		C754	0CK10102515	100PF D 2KV 10% B(Y5P) TR
		C756	181-288B	MKT 100V 104JTR PHS26104
		C761	181-288T	MKT 100V 223KTR PHS85223
		C762	181-477U	333J 19.5*13.0*7.5*7.5 250V J
		C763	0CE107ER650	100UF KMG 250V M FM7.5 BULK
		C771	0CN1040K949	0.1M 50V Z F TA52
		C772	0CN1040K949	0.1M 50V Z F TA52
		C773	0CN1040K949	0.1M 50V Z F TA52
		C774	0CN1040K949	0.1M 50V Z F TA52
		C775	0CN1040K949	0.1M 50V Z F TA52
		C776	0CN1040K949	0.1M 50V Z F TA52
		C777	181-305Y	MPP 250 204J S=10.0
		C779	181-482J	394J 18.0*19.0*12.0*7.5 250V J
		C780	181-305Y	MPP 250 204J S=10.0
		C781	181-477X	563J 19.5*15.5*9.0*7.5 250V J
		C782	181-477Y	683JF 20.0*16.5*9.5*7.5 250V J
		C783	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C785	181-302Z	823J 20.0*17.5*10.0*10.0 250V
		C786	181-302Z	823J 20.0*17.5*10.0*10.0 250V
		C787	0CK47101515	470P 1KV K B TS
		C788	0CK6810W515	680P 500V K B TS
		C788	181-305N	105J 26.0*22.5*14.0*15.0 250V
		C789	0CBZTTA002B	2200PF D 2.5KV J M/PP NI TP7.5
		C790	0CBZTTA002B	2200PF D 2.5KV J M/PP NI TP7.5

DATE: 2002. 7. 24.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C791	0CBZTBU003R	123J 23.0*16.0*9.5*10.0 800V J
		C792	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C793	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C794	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C801	0CE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C802	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C803	0CK1020K515	1000PF 50V K B TR
		C804	0CC1000K115	10P 50V D NP0 TS
		C805	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C806	0CC3300K415	33P 50V J NP0 TP
		C807	0CK5610K515	560P 50V K B TS
		C808	181-288J	MKT 100V 563JTR PHS26563
		C809	0CK1010K515	100PF 50V K B TR
		C810	0CE476CH638	47UF SHL,SD 25V M FM5 TP 5
		C811	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C821	0CQ4721N419	0.0047U 100V J POLY NI TP5
		C822	0CK2220K515	2200P 50V K B TS
		C823	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C831	0CE227CN630	220U SHL 100V M FM5
		C832	181-477A	102J 19.5*12.0*7.0*7.5 250V J
		C833	0CBZTBU003J	392J 20.0*12.5*7.5*10.0 800V J
		C841	0CE336CN638	33UF SHL,SD 100V M FM5 TP 5
		C842	0CE476CQ618	47U SHL 200V M FL TP5
		C843	0CE685CN638	6.8UF SHL,SD 100V 20% TP 5 FM5
		C844	0CE105CK638	1UF SHL,SD 50V M FM5 TP 5
		C845	0CE106CN638	10UF SHL,SD 100V M FM5 TP 5
		C851	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C852	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C853	0CK1020K515	1000PF 50V K B TR
		C854	0CC1000W105	10PF 500V D SL TR
		C855	0CC1000W105	10PF 500V D SL TR
		C856	181-288T	MKT 100V 223KTR PHS85223
		C857	0CK10302945	0.01UF 2KV Z F TR
		C858	0CK10302945	0.01UF 2KV Z F TR
		C891	0CK4710W515	470P 500V K B TS
		C892	0CK6810W515	680P 500V K B TS
		C902	0CBZTBU005C	1UF S 275V K M/PP NI FM27.5
		C903	0CKZTTA003A	SC E 222M 10.0FF7 250V TP7.5 S
		C904	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5 S
		C908	0CZZTAB001B	SMH/HC 470UF 400V 30*50 BK10
		C909	181-479R	183J 19.5*12.0*17.0*7.5 400V J
		C910	0CK1010K515	100PF 50V K B TR
		C911	0CK6810K515	680P 50V K B TS
		C912	0CQ1021N419	1000P 100V J POLY NI TP
		C913	0CN1040K949	0.1M 50V Z F TA52
		C914	181-475A	102J 11.5*10.0*6.0*5.0 100V J
		C915	0CQ8221N519	0.0082U 100V K POLY NI TP
		C916	181-288B	MKT 100V 104JTR PHS26104
		C917	181-288N	MKT 100V 103JTR PHS86103
		C918	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C919	0CK2220K515	2200P 50V K B TS
		C920	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C921	0CE227CK618	220U SHL 50V M FL TP5
		C931	181-288B	MKT 100V 104JTR PHS26104
		C932	181-288B	MKT 100V 104JTR PHS26104
		C933	0CE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C934	0CK10201515	1000P 1KV K B TS

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C951	181-288B	MKT 100V 104JTR PHS26104
		C952	0CE228EF630	2200UF KMG 16V M FM5 BULK
		C953	0CE108EF618	1000UF KMG 16V M FL TP 5
		C954	0CE108CF618	1000UF SHL 16V M FL TP5
		C961	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C962	0CE226CK638	22UF SHL,SD 50V M FM5 TP 5
		C971	0CK3310W515	330P 500V K B TS
		C972	0CE338EH650	3300UF KMG 25V M FM7.5 BULK
		C973	0CE477CH618	470UF SHL 25V M FL TP5
		C974	0CC4700W405	47PF 500V J SL TP
		C975	0CE108CH630	1000UF SHL 25V M FM5 BULK
		C976	0CE227CK618	220U SHL 50V M FL TP5
		C977	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C978	0CE108CF618	1000UF SHL 16V M FL TP5
		C980	0CK10101515	100PF 1KV K B TR
		C981	0CK10101515	100PF 1KV K B TR
		C982	0CK33101515	330P 1KV K B TS
		C983	0CE107ER650	100UF KMG 250V M FM7.5 BULK
		C984	0CE227EN630	220UF KMG 100V M FM5 BULK
		C991	181-477N	103J 19.5*12.0*7.0*7.5 250V J
		C992	181-288B	MKT 100V 104JTR PHS26104
		C999	0CN1040K949	0.1M 50V Z F TA52
		DIODEs		
		D101	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D102	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D103	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D104	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D105	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D106	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D107	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D108	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D109	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D110	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D111	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D112	0DS113309AA	1SS133 TP ROHM KOREA DO34 90V
		D201	0DS226009AA	KDS226 TP KEC SOT-23 80V 300M
		D201	0DL305029BA	LTL-305DJ-0C2 TP LITEON GREEN/
		D307	0DS124409AA	1SS244 TP ROHM KOREA
		D308	0DS124409AA	1SS244 TP ROHM KOREA
		D309	0DS124409AA	1SS244 TP ROHM KOREA
		D310	0DS124409AA	1SS244 TP ROHM KOREA
		D311	0DS124409AA	1SS244 TP ROHM KOREA
		D312	0DS124409AA	1SS244 TP ROHM KOREA
		D313	0DS124409AA	1SS244 TP ROHM KOREA
		D314	0DS124409AA	1SS244 TP ROHM KOREA
		D315	0DS124409AA	1SS244 TP ROHM KOREA
		D318	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D319	0DR140059DA	1N4005TB52 TP LITEON DO41 600V
		D401	971-0054	TIN 50MM TAPING
		D403	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D404	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D405	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D406	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D501	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D503	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D601	0DD100009DE	RGP10G TP G.I DO204AL 400V 1A
		D621	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D701	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D702	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D721	0DD140009AA	EK14 V(1) TP SANKEN E/EO-TMD 4
		D722	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D731	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D732	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D733	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D734	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D735	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D736	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D751	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D752	0DR140059DA	1N4005TB52 TP LITEON DO41 600V
		D753	0DD140009AA	EK14 V(1) TP SANKEN E/EO-TMD 4
		D756	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D761	0DR210009AB	RL2AV(1) TP SANKEN A-TMD 600
		D771	0DR123151AA	YG123S15 ST FUJI
		D772	0DD100009DA	RGP10J TP G.I DO204AL 600V 1A
		D773	0DD140009AA	EK14 V(1) TP SANKEN E/EO-TMD 4
		D774	0DD140009AA	EK14 V(1) TP SANKEN E/EO-TMD 4
		D775	0DD100009DK	RU1P V(1) TP SANKEN R-TMD 1000
		D802	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D821	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D822	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D831	0DRFJ00011A	YG339D6F208 FUJI ST TO220 -400
		D832	0DR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D834	0DR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D841	0DD100009DE	RGP10G TP G.I DO204AL 400V 1A
		D842	0DD100009DA	RGP10J TP G.I DO204AL 600V 1A
		D843	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D851	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D852	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D853	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D854	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D855	0DD100009DK	RU1P V(1) TP SANKEN R-TMD 1000
		D891	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D892	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D893	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D901	0DD560000AA	D5SB60 BRIDGE (5A/600V)S.D.G
		D902	0DR153979AA	1N5397GP TP G.I DO201AD 600V 1
		D903	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D904	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D905	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D906	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		D907	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1
		D908	0DR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D911	0DR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D912	0DD400509BB	UF4005(52MM) TP G.I DO41 600
		D951	0DD300900AA	SB30-09J BK SANYO TO220ML 90V
		D952	0DD390009AA	RK39V TP SANKEN R-TMD 90V 2A
		D971	0DR520000AA	D5LC20U BK SHINDENGEN ITO220
		D972	0DR520000AA	D5LC20U BK SHINDENGEN ITO220
		D973	0DR540400AA	UF5404L BK G.I DO201AD 400V 3A
		D974	0DR155700AA	SUF15JL-5702 BK G.I GP20 600V
		D975	0DR155700AA	SUF15JL-5702 BK G.I GP20 600V
		D976	0DRSA00061A	FMXG16S SANKEN ST TO220F 600V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D999	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1
		ZD101	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD102	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD103	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD104	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD105	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD106	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD107	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD108	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD201	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD201	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD202	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD203	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD204	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD207	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD208	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD209	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD210	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD211	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD212	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD213	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 20
		ZD214	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD215	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 20
		ZD303	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD306	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD401	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD402	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD403	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD502	0DZ120009AF	MTZJ12B TP ROHM-K DO34 500MW 1
		ZD701	0DZ110009AD	MTZJ11B TP ROHM-K DO34 500MW 1
		ZD721	0DZ110009AD	MTZJ11B TP ROHM-K DO34 500MW 1
		ZD761	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W 18
		ZD841	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W 18
		ZD851	0DZ750009AG	MTZJ7.5B TP ROHM-K DO34 0.5W 7
		ZD852	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW
		ZD901	0DZ510009BE	GDZ5.1B TP GRANDE DO34 500MW 5
		ZD931	0DZ620009AP	P6KE200A GENERAL SEMICONDUCTOR
		ZD932	0DZ620009AL	GDZJ6.2B TP GRANDE DO34 0.5W 6
ICs				
		IC101	0IPRPSS001A	S1D2507B01 SAMSUNG ELECTRONICS
		IC201	0ITI204600B	TUSB2046B(SN2046B) 32PQFP R/TP
		IC202	0ITI204400A	TPS2044DR 16SOP TP QUAD POWER
		IC203	0ITI764330A	TPS76433DBVR SOT23(DBV) TP 0.1
		IC301	0IPRPNV009A	NT68275-00027 NOVATEK 16P, DIP
		IC302	0IPRPNS018A	LM1262NA NATIONAL SEMICONDUCTO
		IC303	0IPRPNS019A	LM2462TA NATIONAL SEMICONDUCTO
		IC304	0IPRPNS005A	LM2480NA NATIONAL SEMICONDUCTO
		IC401	0IZZTSZ205A	WT62P2 WELTREND 42P,SDIP ST FB
		IC403	0ISG240860A	M24C08-BN6 8DIP BK 8K SERIAL I
		IC404	0IPH740000D	N74F00N 14P DIP BK NAND GATE
		IC501	0ISS455800H	KA4558 8P DIP BK OP AMP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC601	0ISG817200A	TDA8172
		IC701	0IPRPPH005A	TDA4841PS PHILIPS 32P,SDIP ST
		IC702	0INS353000A	LF353N OP-AMP
		IC801	0IMI625010A	M62501P 16P4 BK INTERFACE PWM
		IC901	0ISS384200A	KA3842B (PWM)
		IC902	0IPMGPF008A	TOP243Y POWER INTEGRATION TO22
		IC903	0ILI817000E	LTV-817M B 4P BK PHOTO COUPLER
		IC904	0ILI817000E	LTV-817M B 4P BK PHOTO COUPLER
		IC905	0ILI817000E	LTV-817M B 4P BK PHOTO COUPLER
		IC951	0IKE431000B	KIA431 (TP)
		IC952	0ISH608300A	PQ6RD083 4P BK 6.3V VOL. REGUL
		IC971	0ISS781200K	KA78R12-STU TO220(4L) BK L/DRO
		IC991	0IKE431000B	KIA431 (TP)
COILs & COREs				
		L101	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		L201	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		L304	0LA1000K119	100UH K 2.3*3.4 TP
		L305	0LA0150K119	AXIAL TAE YANG 0.15UH 10% A 2.
		L306	0LA0150K119	AXIAL TAE YANG 0.15UH 10% A 2.
		L307	0LA0150K119	AXIAL TAE YANG 0.15UH 10% A 2.
		L771	150-985N	DR10*10 4.7UH 0.16MM 322.5T
		L772	6140TYZ011F	- GET H-LIN 2.1UH FB910G
		L774	150-985P	DR12*15 6MH 0.25MM 365.5T H-
		L831	6140TBZ009C	NO CORE 10UH 0.12*15MM 50.5T F
		L901	150-A50F	SQ2930 6MH MIN 0.80MM 49T
		L951	150-985F	DR10*10 10UH 0.5MM 14.5T
		FB101	6210TCE001L	HB-1T2012-102JT CERATECH 2012M
		FB201	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB301	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB302	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB303	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB304	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB305	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB306	971-0054	TIN 50MM TAPING
		FB307	971-0054	TIN 50MM TAPING
		FB308	971-0054	TIN 50MM TAPING
		FB309	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB310	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB312	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB314	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB315	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB316	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB317	125-155A	BFD3510R2FG SAMWHA 3.5*10MM RA
		FB401	125-155B	BFS3580R2FG SAMWHA 3.5*8.0MM R
		FB402	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB601	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB761	125-155B	BFS3580R2FG SAMWHA 3.5*8.0MM R
		FB771	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB772	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB951	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM A
		FB971	125-155L	BFS3580A0FG SAMWHA 3.5*8.0MM A
		FB972	125-155L	BFS3580A0FG SAMWHA 3.5*8.0MM A
		FB973	125-155M	BFD3550R2FG SAMWHA 3.5*5.0MM R
		FB974	125-155G	BFS3550R2FG SAMWHA 3.5*5MM RAD
		FB975	125-155F	BFD3580R2FG SAMWHA 3.5*8.0MM R

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		TRANSISTORs		
		Q301	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q302	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q501	0TR320509AB	KTC3205-Y(KTC2236A) TP KEC TO9
		Q502	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92
		Q511	0TR320509AB	KTC3205-Y(KTC2236A) TP KEC TO9
		Q512	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92
		Q521	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92
		Q522	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO9
		Q532	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO9
		Q621	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q705	0TR558900BA	2SC5589(LG,W/M) BK TOSHIBA TO3
		Q721	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q731	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q732	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO9
		Q733	0TR231609AA	KSC2316-Y TP SAMSUNG TO92L NP
		Q734	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q751	0TR564009AB	KSB564AC-YTA TP SANSUNG TO92 P
		Q752	0TR471009AA	KSD471AC-Y TP SAMSUNG TO92 NP
		Q753	0TF283509AA	2SK2835(TP) TP TOSHIBA 200V 5A
		Q758	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q761	0TR564009AB	KSB564AC-YTA TP SANSUNG TO92 P
		Q762	0TR471009AA	KSD471AC-Y TP SAMSUNG TO92 NP
		Q763	0TFFC10006A	FAIRCHILD FQPF9P25 ST TO220F -
		Q781	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q782	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q783	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q784	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q785	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q786	0TR114009AB	DTC114ES TP ROHM-K SPT NPN
		Q787	0TF640000CB	FAIRCHILD IRFS640B ST TO220F 2
		Q788	0TF640000CB	FAIRCHILD IRFS640B ST TO220F 2
		Q789	0TF640000CB	FAIRCHILD IRFS640B ST TO220F 2
		Q790	0TF640000CB	FAIRCHILD IRFS640B ST TO220F 2
		Q791	0TF640000CB	FAIRCHILD IRFS640B ST TO220F 2
		Q792	0TF640000CB	FAIRCHILD IRFS640B ST TO220F 2
		Q822	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92
		Q823	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO9
		Q824	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q825	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q826	0TFFN10003B	INFINEON SPA07N60C3 ST TO220F
		Q851	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q852	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q853	0TR463300AB	2SC4633(LS-CB11) BK SANYO LS-
		Q854	0TR463300AB	2SC4633(LS-CB11) BK SANYO LS-
		Q891	0TR920009AB	KSP92 TP SAMSUNG TO92 HIGH VOL
		Q901	0TF214800BA	2SK2148-01R BK FUJI 600V 12A T
		Q902	0TR126609AA	KTA1266-Y(KTA1015) TP KEC TO92
		Q903	0TR127509AC	KTA1275-Y(KTA1013) TP KEC TO92
		Q951	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92
		Q952	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L PNP
		Q961	0TR390409CA	2N3904 TP SAMSUNG TO92 NPN
		Q999	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RESISTORs		
		R101	0RD1000Q609	100 1/4W(3 5% TA52
		R102	0RD1000Q609	100 1/4W(3 5% TA52
		R103	0RD1001Q609	1K 1/4W(3 5% TA52
		R104	0RD1001Q609	1K 1/4W(3 5% TA52
		R105	0RD1001Q609	1K 1/4W(3 5% TA52
		R106	0RD1001Q609	1K 1/4W(3 5% TA52
		R107	0RD0332Q609	33 1/4W(3 5% TA52
		R108	0RH0752D622	75 1/10W 5 D.R/TP
		R109	0RD0332Q609	33 1/4W(3 5% TA52
		R110	0RH0752D622	75 1/10W 5 D.R/TP
		R111	0RD0332Q609	33 1/4W(3 5% TA52
		R112	0RH0752D622	75 1/10W 5 D.R/TP
		R113	0RD1000Q609	100 1/4W(3 5% TA52
		R114	0RD1000Q609	100 1/4W(3 5% TA52
		R115	0RD0332Q609	33 1/4W(3 5% TA52
		R116	0RH0752D622	75 1/10W 5 D.R/TP
		R117	0RD0332Q609	33 1/4W(3 5% TA52
		R118	0RH0752D622	75 1/10W 5 D.R/TP
		R119	0RD0332Q609	33 1/4W(3 5% TA52
		R120	0RH0752D622	75 1/10W 5 D.R/TP
		R121	0RD1000Q609	100 1/4W(3 5% TA52
		R122	0RD1000Q609	100 1/4W(3 5% TA52
		R124	0RH4703D622	470K 1/10W 5 D.R/TP
		R125	0RH1303D622	130K 1/10W 5 TA
		R126	0RD0362Q609	36 OHM 1/4 W(3.4) 5.00% TA52
		R127	0RD0132Q609	13 OHM 1/4 W(3.4) 5.00% TA52
		R128	0RD0362Q609	36 OHM 1/4 W(3.4) 5.00% TA52
		R129	0RD1000Q609	100 1/4W(3 5% TA52
		R130	0RD1000Q609	100 1/4W(3 5% TA52
		R131	0RD1000Q609	100 1/4W(3 5% TA52
		R132	0RD1000Q609	100 1/4W(3 5% TA52
		R133	0RH0242D622	24 OHM 1 / 10 W 5% D R/TP
		R201	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R201	0RD1001Q609	1K 1/4W(3 5% TA52
		R202	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R202	0RD1600Q609	160 1/4W(3 5% TA52
		R203	0RH0101D622	1.0 1/10W 5 TA
		R203	0RD2200Q609	220 1/4W(3 5% TA52
		R204	0RH0222D622	22 1/10W 5 D.R/TP
		R204	0RD2200Q609	220 1/4W(3 5% TA52
		R205	0RH0222D622	22 1/10W 5 D.R/TP
		R205	0RD1001Q609	1K 1/4W(3 5% TA52
		R206	0RD0222Q609	22 1/4W(3 5% TA52
		R206	0RD1600Q609	160 1/4W(3 5% TA52
		R207	0RD0222Q609	22 1/4W(3 5% TA52
		R207	0RD3300Q609	330 1/4W(3 5% TA52
		R208	0RD0222Q609	22 1/4W(3 5% TA52
		R208	0RD3300Q609	330 1/4W(3 5% TA52
		R209	0RD0222Q609	22 1/4W(3 5% TA52
		R209	0RD5600Q609	560 1/4W(3 5% TA52
		R210	0RD0222Q609	22 1/4W(3 5% TA52
		R210	0RD3600Q609	360 1/4W(3 5% TA52
		R211	0RD0222Q609	22 1/4W(3 5% TA52
		R211	0RD5100Q609	510 1/4W(3 5% TA52
		R212	0RH1502D622	15K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R213	0RH1502D622	15K 1/10W 5 D.R/TP
		R214	0RH1502D622	15K 1/10W 5 D.R/TP
		R215	0RH1502D622	15K 1/10W 5 D.R/TP
		R216	0RD1502Q609	15K 1/4W(3 5% TA52
		R217	0RD1502Q609	15K 1/4W(3 5% TA52
		R218	0RD1502Q609	15K 1/4W(3 5% TA52
		R219	0RD1502Q609	15K 1/4W(3 5% TA52
		R220	0RD0222Q609	22 1/4W(3 5% TA52
		R221	0RD0222Q609	22 1/4W(3 5% TA52
		R222	0RH1502D622	15K 1/10W 5 D.R/TP
		R223	0RH1502D622	15K 1/10W 5 D.R/TP
		R224	0RH1502D622	15K 1/10W 5 D.R/TP
		R225	0RH1502D622	15K 1/10W 5 D.R/TP
		R226	0RH1502D622	15K 1/10W 5 D.R/TP
		R227	0RH1502D622	15K 1/10W 5 D.R/TP
		R228	0RH1502D622	15K 1/10W 5 D.R/TP
		R229	0RH1502D622	15K 1/10W 5 D.R/TP
		R230	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00% D
		R304	0RH0332D622	33 1/10W 5 D.R/TP
		R305	0RH0332D622	33 1/10W 5 D.R/TP
		R306	0RH0332D622	33 1/10W 5 D.R/TP
		R307	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R308	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
		R309	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R310	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R311	0RD1002Q609	10K 1/4W(3 5% TA52
		R312	0RH0472D622	47 1/10W 5 D.R/TP
		R313	0RD1000Q609	100 1/4W(3 5% TA52
		R314	0RD1001Q609	1K 1/4W(3 5% TA52
		R315	0RD1000Q609	100 1/4W(3 5% TA52
		R316	0RH1000D622	100 1/10W 5 D.R/TP
		R317	0RD1002Q609	10K 1/4W(3 5% TA52
		R318	0RD1001Q609	1K 1/4W(3 5% TA52
		R319	0RD1000Q609	100 1/4W(3 5% TA52
		R320	0RD1000Q609	100 1/4W(3 5% TA52
		R321	0RD1002Q609	10K 1/4W(3 5% TA52
		R322	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R323	0RD1102Q609	11K 1/4W(3 5% TA52
		R324	0RH1000D622	100 1/10W 5 D.R/TP
		R325	0RD1002Q609	10K 1/4W(3 5% TA52
		R326	0RD1000Q609	100 1/4W(3 5% TA52
		R327	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R328	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R329	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R330	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R331	0RH2200D622	220 1/10W 5 D.R/TP
		R332	0RH2200D622	220 1/10W 5 D.R/TP
		R333	0RH2200D622	220 1/10W 5 D.R/TP
		R334	0RD1000Q609	100 1/4W(3 5% TA52
		R335	0RD1000Q609	100 1/4W(3 5% TA52
		R336	0RD1200Q609	120 1/4W(3 5% TA52
		R337	0RD1500Q609	150 1/4W(3 5% TA52
		R338	0RD1200Q609	120 1/4W(3 5% TA52
		R339	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R340	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R341	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R342	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R343	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R344	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R345	0RD2001Q609	2K 1/4W(3 5% TA52
		R347	0RD1000Q609	100 1/4W(3 5% TA52
		R359	0RD0102Q609	10 1/4W(3 5% TA52
		R401	0RD1000Q609	100 1/4W(3 5% TA52
		R402	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R403	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R404	0RD1000Q609	100 1/4W(3 5% TA52
		R405	0RD1000Q609	100 1/4W(3 5% TA52
		R406	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R407	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R408	0RD1000Q609	100 1/4W(3 5% TA52
		R409	0RD1000Q609	100 1/4W(3 5% TA52
		R410	0RD1000Q609	100 1/4W(3 5% TA52
⚠		R411	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R412	0RD1001Q609	1K 1/4W(3 5% TA52
		R413	0RD1000Q609	100 1/4W(3 5% TA52
		R414	0RD1000Q609	100 1/4W(3 5% TA52
		R415	0RD1000Q609	100 1/4W(3 5% TA52
		R416	0RD2001Q609	2K 1/4W(3 5% TA52
		R417	0RD2001Q609	2K 1/4W(3 5% TA52
		R418	0RD2001Q609	2K 1/4W(3 5% TA52
		R419	0RD1000Q609	100 1/4W(3 5% TA52
		R420	0RD1000Q609	100 1/4W(3 5% TA52
		R423	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R424	0RD2001Q609	2K 1/4W(3 5% TA52
		R425	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R426	0RD1001Q609	1K 1/4W(3 5% TA52
		R427	0RD1802Q609	18K 1/4W(3 5% TA52
		R428	971-0054	TIN 50MM TAPING
		R501	0RD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R502	0RD6801Q609	6.80K 1/4W(3 5% TA52
		R503	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R504	0RX0472J609	47 OHM 1 W 5% TA52
		R505	0RN6202F409	62KOHM 1/6 W 1% TA52
		R506	0RN5601F409	5.60K 1/6W 1% TA52
		R507	0RD4302Q609	43K 1/4W(3 5% TA52
		R508	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R511	0RD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R512	0RD6801Q609	6.80K 1/4W(3 5% TA52
		R513	0RN1000F409	100OHM 1/6 W 1% TA52
		R514	0RX0472J609	47 OHM 1 W 5% TA52
		R515	0RN6202F409	62KOHM 1/6 W 1% TA52
		R516	0RN5601F409	5.60K 1/6W 1% TA52
⚠		R517	0RD4302Q609	43K 1/4W(3 5% TA52
		R518	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R521	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
⚠		R524	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R526	0RD6201Q609	6.20K 1/4W(3 5% TA52
⚠		R528	0RD4701Q609	4.70K 1/4W(3 5% TA52
⚠		R532	0RD1502Q609	15K 1/4W(3 5% TA52
⚠		R533	0RD1500Q609	150 1/4W(3 5% TA52
		R602	0RN1001F409	1K 1/6W 1% TA52
		R603	0RN1802F409	18K 1/6W 1% TA52
⚠		R604	0RN1002F409	10K 1/6W 1 TA52
		R605	0RN8201F409	8.20K 1/6W 1% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R606	0RN0151H509	1.5 1/2W 2 TA52
		R607	0RN0101H409	1.0 1/2W 1 TA52
		R608	0RN0152G609	15 1/4W 5 TA52
		R609	0RX2700J609	270 OHM 1 W 5% TA52
		R610	125-155K	BFS3550A0FG SAMWHA 3.5*5.0MM A
		R611	0RX0751K607	7.5 OHM 2 W 5% TA62
		R612	0RN1802F409	18K 1/6W 1% TA52
		R613	0RN6201F409	6.20K 1/6W 1% TA52
		R614	0RN4700F409	470 1/6W 1 TA52
		R621	0RN5602F409	56K 1/6W 1% TA52
		R622	0RN1001F409	1K 1/6W 1% TA52
		R623	0RN8201F409	8.20K 1/6W 1% TA52
		R624	0RN1002F409	10K 1/6W 1 TA52
		R625	0RD1001Q609	1K 1/4W(3 5% TA52
		R701	0RD1000Q609	100 1/4W(3 5% TA52
		R702	0RD1000Q609	100 1/4W(3 5% TA52
		R703	0RD1001Q609	1K 1/4W(3 5% TA52
		R704	0RD1001Q609	1K 1/4W(3 5% TA52
		R705	0RD2703Q609	270K 1/4W(3 5% TA52
		R706	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R707	0RN2701F409	2.70K 1/6W 1% TA52
		R708	0RN5600F409	560 1/6W 1% TA52
		R709	0RN2202F409	22K 1/6W 1% TA52
		R710	0RD1001Q609	1K 1/4W(3 5% TA52
		R711	0RD1001Q609	1K 1/4W(3 5% TA52
		R712	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R713	0RD2401Q609	2.40K 1/4W(3 5% TA52
		R714	0RN2202F409	22K 1/6W 1% TA52
		R715	0RN1202F409	12K 1/6W 1% TA52
		R716	0RN3002F409	30K 1/6W 1% TA52
		R717	0RN4302F409	43K 1/6W 1% TA52
		R718	0RD0101Q609	1 1/4W(3 5% TA52
		R719	0RD1502Q609	15K 1/4W(3 5% TA52
		R720	0RD2001Q609	2K 1/4W(3 5% TA52
		R721	0RD0472Q609	47 1/4W(3 5% TA52
		R722	0RD3601Q609	3.60K 1/4W(3 5% TA52
		R723	0RD1001Q609	1K 1/4W(3 5% TA52
		R730	0RD4701Q609	4.70K 1/4W(3 5% TA52
⚠		R731	0RD1002Q609	10K 1/4W(3 5% TA52
⚠		R732	0RD1002Q609	10K 1/4W(3 5% TA52
		R733	0RD1002Q609	10K 1/4W(3 5% TA52
		R734	0RD1003Q609	100K 1/4W(3 5% TA52
		R735	0RD3902Q609	39K 1/4W(3 5% TA52
		R736	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R737	0RD1002Q609	10K 1/4W(3 5% TA52
		R738	0RD1001Q609	1K 1/4W(3 5% TA52
		R739	0RX0432K607	43 OHM 2 W 5% TA62
		R740	0RX0332K607	33 OHM 2 W 5% TA62
		R741	0RD0122A609	12 OHM 1/2 W (7.0) 5% TA52
		R751	0RD4700Q609	470 OHM 1/4 W (3.4) 5% TA52
		R752	0RD1002A609	10K OHM 1/2 W (7.0) 5% TA52
		R753	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R754	0RMZTWD001H	RWR PD TYPE SMART 1.3OHM 7 W 5
		R755	0RB0120K607	0.12 OHM 2 W 5% TA62
		R756	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R757	0RX0331K607	3.3 OHM 2 W 5% TA62
		R758	0RD1002Q609	10K 1/4W(3 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R760	0RD5600Q609	560 1/4W(3 5% TA52
		R761	0RD2701Q609	2.70K 1/4W(3 5% TA52
		R763	0RD0102Q609	10 1/4W(3 5% TA52
		R764	0RD0472Q609	47 1/4W(3 5% TA52
		R765	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R766	0RMZTWD001A	4.7 OHM 5 W 5% B RWR
		R767	0RX1003J609	100KOHM 1 W 5% TA52
		R771	0RD2202Q609	22K 1/4W(3 5% TA52
		R772	0RD2202Q609	22K 1/4W(3 5% TA52
		R773	0RD2202Q609	22K 1/4W(3 5% TA52
		R774	0RD2202Q609	22K 1/4W(3 5% TA52
		R775	0RD2202Q609	22K 1/4W(3 5% TA52
		R776	0RD2202Q609	22K 1/4W(3 5% TA52
		R777	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R778	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R779	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R780	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R781	0RD3001Q609	3K 1/4W(3 5% TA52
		R782	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R790	0RX0472J609	47 OHM 1 W 5% TA52
		R791	0RMZTWD001K	RWR SMART 100OHM 7 W 5% PD TYP
		R792	0RX1800K607	180 OHM 2 W 5% TA62
		R793	0RD0471A609	4.7 OHM 1/2 W (7.0) 5% TA52
		R801	0RN3601F409	3.6K 1/6W 1 TA52
		R803	0RD1002Q609	10K 1/4W(3 5% TA52
		R804	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R805	0RN1202F409	12K 1/6W 1% TA52
		R806	0RN1002F409	10K 1/6W 1 TA52
		R807	0RD1002Q609	10K 1/4W(3 5% TA52
		R808	0RD2703Q609	270K 1/4W(3 5% TA52
		R809	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R810	0RD3302Q609	33K 1/4W(3 5% TA52
		R811	0RN4700F409	470 1/6W 1 TA52
		R812	0RN1502F409	15K 1/6W 1% TA52
		R813	0RD1502Q609	15K 1/4W(3 5% TA52
		R814	0RD1502Q609	15K 1/4W(3 5% TA52
		R815	0RN1002F409	10K 1/6W 1 TA52
		R825	0RB0150K609	0.15 OHM 2 W 5% TA52
		R826	0RN1502F409	15K 1/6W 1% TA52
		R827	0RD1003Q609	100K 1/4W(3 5% TA52
		R828	0RD0472Q609	47 1/4W(3 5% TA52
		R829	0RD0332Q609	33 1/4W(3 5% TA52
		R830	0RD0472Q609	47 1/4W(3 5% TA52
		R831	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R832	0RD1003Q609	100K 1/4W(3 5% TA52
		R833	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R835	0RMZTWD001C	47 OHM 7 W 5% RWR PD-TYPE
⚠		R841	0RN1202F409	12K 1/6W 1% TA52
		R842	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R843	0RD1000Q609	100 1/4W(3 5% TA52
		R844	0RD6202A609	62K OHM 1/2 W (7.0) 5% TA52
		R845	0RN1503G409	150K 1/4W 1 TA52
		R846	0RD0751Q609	7.5 OHM 1/4 W (3.4) 5% TA52
		R851	0RD0472Q609	47 1/4W(3 5% TA52
		R852	0RD6800Q609	680 1/4W(3 5% TA52
		R853	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA52
		R855	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R856	0RD6801Q609	6.80K 1/4W(3 5% TA52
		R857	0RN2702F409	27K 1/6W 1% TA52
		R858	0RD1004A609	1.0M OHM 1/2 W (7.0) 5% TA52
		R859	0RD6800Q609	680 1/4W(3 5% TA52
		R860	0RX1502J609	15KOHM 1 W 5% TA52
		R861	0RX1503L665	150000 3 W 5% SF
		R862	0RX1503L665	150000 3 W 5% SF
		R863	0RD2001A609	2.0K OHM 1/2 W (7.0) 5% TA52
		R891	0RD4302Q609	43K 1/4W(3 5% TA52
		R893	0RD1000Q609	100 1/4W(3 5% TA52
		R899	0RD1001Q609	1K 1/4W(3 5% TA52
		R901	0RD4703A609	470K OHM 1/2 W (7.0) 5% TA52
		R903	180-465H	0.24 OHM 5W 5% B RWR
		R906	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R907	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R908	0RN0220H609	0.22 1/2W 5% TA52
		R909	0RN0220H609	0.22 1/2W 5% TA52
		R910	0RB0150K609	0.15 OHM 2 W 5% TA52
		R911	0RX4702K607	47KOHM 2 W 5% TA62
		R912	0RD0511Q609	5.1 OHM 1/4 W (3.4) 5% TA52
		R913	0RD0102Q609	10 1/4W(3 5% TA52
		R914	0RD1001Q609	1K 1/4W(3 5% TA52
		R915	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R916	0RN4701F409	4.70K 1/6W 1% TA52
		R917	0RN1002F409	10K 1/6W 1 TA52
		R918	0RN4702F409	47K 1/6W 1% TA52
		R919	0RN4702F409	47K 1/6W 1% TA52
		R920	0RD4702Q609	47K 1/4W(3 5% TA52
		R921	0RD0101Q609	1 1/4W(3 5% TA52
		R922	0RD1500Q609	150 1/4W(3 5% TA52
		R923	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R924	0RD1003Q609	100K 1/4W(3 5% TA52
		R925	0RD3302Q609	33K 1/4W(3 5% TA52
		R926	0RD3601Q609	3.60K 1/4W(3 5% TA52
		R927	0RD0472Q609	47 1/4W(3 5% TA52
		R931	0RD0471Q609	4.70 1/4W(3 5% TA52
		R932	0RD0681Q609	6.8 OHM 1/4 W (3.4) 5% TA52
		R933	0RD5101Q609	5.10K 1/4W(3 5% TA52
		R934	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R935	0RD3604A609	3.6M OHM 1/2 W (7.0) 5% TA52
		R936	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R937	0RD5602A609	56K OHM 1/2 W (7.0) 5% TA52
		R951	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R952	0RD7501Q609	7.50K 1/4W(3 5% TA52
		R953	0RN3901F409	3.90K 1/6W 1% TA52
		R954	0RN3901F409	3.90K 1/6W 1% TA52
		R955	0RD1000Q609	100 1/4W(3 5% TA52
		R956	0RD2201A609	2.2K OHM 1/2 W (7.0) 5% TA52
		R957	0RD1000Q609	100 1/4W(3 5% TA52
		R958	0RD2200Q609	220 1/4W(3 5% TA52
		R959	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R960	0RD4700A609	470 OHM 1/2 W (7.0) 5% TA52
		R961	0RD1001Q609	1K 1/4W(3 5% TA52
		R962	0RD2401Q609	2.40K 1/4W(3 5% TA52
		R963	0RD1001Q609	1K 1/4W(3 5% TA52
		R964	0RD1000Q609	100 1/4W(3 5% TA52
		R971	0RD0362A609	36 OHM 1/2 W(7.0) 5.00% TA52

DATE: 2002. 7. 24.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R972	0RD2200Q609	220 1/4W(3 5% TA52
		R973	0RC4703A609	470K OHM 1/2 W(7.0) 5% TA52
		R974	0RC4703A609	470K OHM 1/2 W(7.0) 5% TA52
		R975	0RD0241Q609	2.4 OHM 1/4 W(3.4) 5.00% TA52
		R982	0RD1101Q609	1.1K OHM 1/4 W (3.4) 5% TA52
		R991	0RC1503A609	150K OHM 1/2 W(7.0) 5.00% TA52
		R992	0RN4702F409	47K 1/6W 1% TA52
		R993	0RN1801F409	1.80K 1/6W 1% TA52
		R994	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R995	0RD2003Q609	200K 1/4W(3 5% TA52
		R996	0RD3900Q609	390 1/4W(3 5% TA52
		R998	0RD0512Q609	51 1/4W(3 5% TA52
		R999	0RD4701Q609	4.70K 1/4W(3 5% TA52
		OTHERs		
		F1	430-858C	AFC-520 BAE EUN TA
		F2	430-858C	AFC-520 BAE EUN TA
		F901	0FZZTTH001B	TIME LAG HBC 5A/250V,215 005,L
		J139	0RD0272Q609	27 OHM 1/4 W (3.4) 5% TA52
		J2	125-155D	BFS3514A0FG SAMHWA 3.5*14MM AX
		RL901	6920TBB006A	DY3M-DC12V DONGYANG 250VAC 5A
		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/36
		SC901	6200TJB004A	03ME3G(3) DELTA FB915B
		SG301	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG302	165-004A	AG20PT 152F-L3N/S-23 HANDOK RA
		SG303	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG304	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG305	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG851	165-004A	AG20PT 152F-L3N/S-23 HANDOK RA
		SW201	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW202	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW203	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW204	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW205	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW206	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW207	140-058D	SKHV10911A LGEC NON 12 20 HORI
		SW771	140-079C	SLS-1301 SW NON 30 0 HORIZENTA
		T701	6170TCZ008B	EI2218 1.13MH NB230A
		T702	6140TDZ008A	LX31 GET EER2834,12 PIN,1.0MH,
		T801	6174T13010C	“FQM19A008,EB990G SAMSUNG 19””””
		T901	6170TMZ139A	EER4950 300UH V-18PIN FB910G S
		T902	6170TMZ141A	EE2525F 1.75MH V-10PIN FB910G
		T903	151-414E	UU1116 8.8MH PLUSE
		TH901	6322TB070AA	J503P63D070M290S JA HWA +/- 20
		TH902	6322TA080AB	TP8D15 DAEWOO +/- 15% 110/220V
		VR801	180-035Q	EVN-DJAA03B24 (MEC),20KB
		VR991	180-035D	EVN-DJAA03B32 (MEC),300B
		X201	6202TTB002B	ATS-49/U SUNNY RADIAL 6MHZ 30P
		X401	6202TTB003B	HC-49/U HARMONY RADIAL 12MHZ 3

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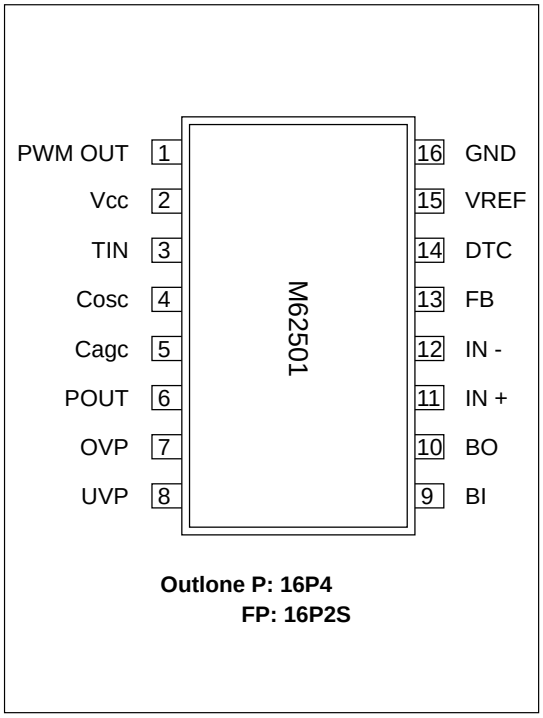
PIN CONFIGURATION

M62501P /FP

PIN CONFIGURATION(TOP VIEW)

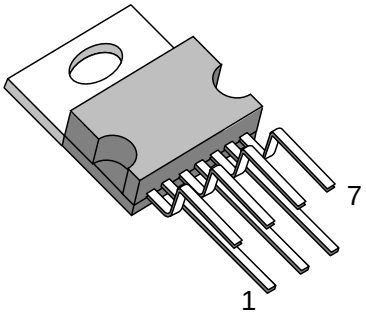


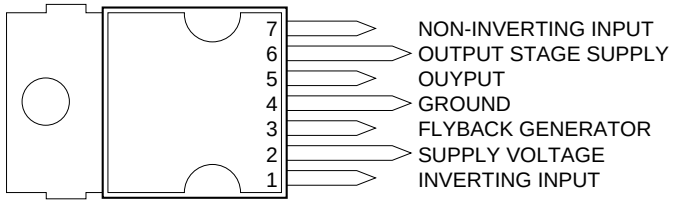
Outlone P: 16P4
FP: 16P2S

Teerminal Number and The facillty

PIN NO.	Symbol	Functional Description
1	PWM OUT	PWM output terminal
2	Vcc	Power supply terminal
3	TIN	Trigger Input terminal
4	CAGC	This pin is used to set oscillating frequency
5	CAGC	This pin is used for AGC setting
6	P.OUT	Output terminal of error signal
7	OVP	Input terminal of Over Voltage Protection
8	UVP	Input terminal of Under Voltage Protection
9	BI	Postive Input terminal of Buffer Amp
10	BO	Output terminal of Buffer Amp
11	IN^+	Postive Input terminal of OP Amp
12	IN^-	Negative Input terminal of OP Amp
13	FB	Output terminal of OP Amp
14	DTC	Dead time control terminal(Soft start function)
15	VREF	Output terminal of reference voltage (5V)
16	GND	Ground terminal

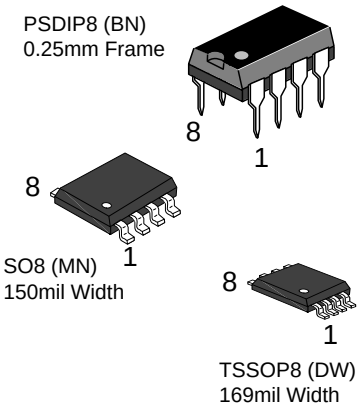
TDA8172 Vertical Deflection Output Circuit

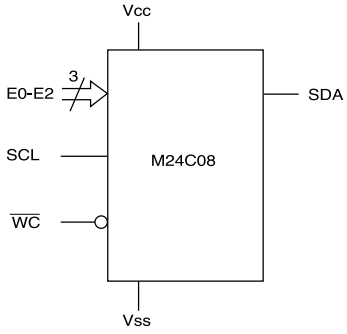




Pin Configuration

M24C08 Serial I^2C BUS EEPROM





Logic Dirgram

SYMBOL	DESCRIPTION
E0-E2	Chip Enable Input
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
Vcc	Supply Voltage
Vss	Ground

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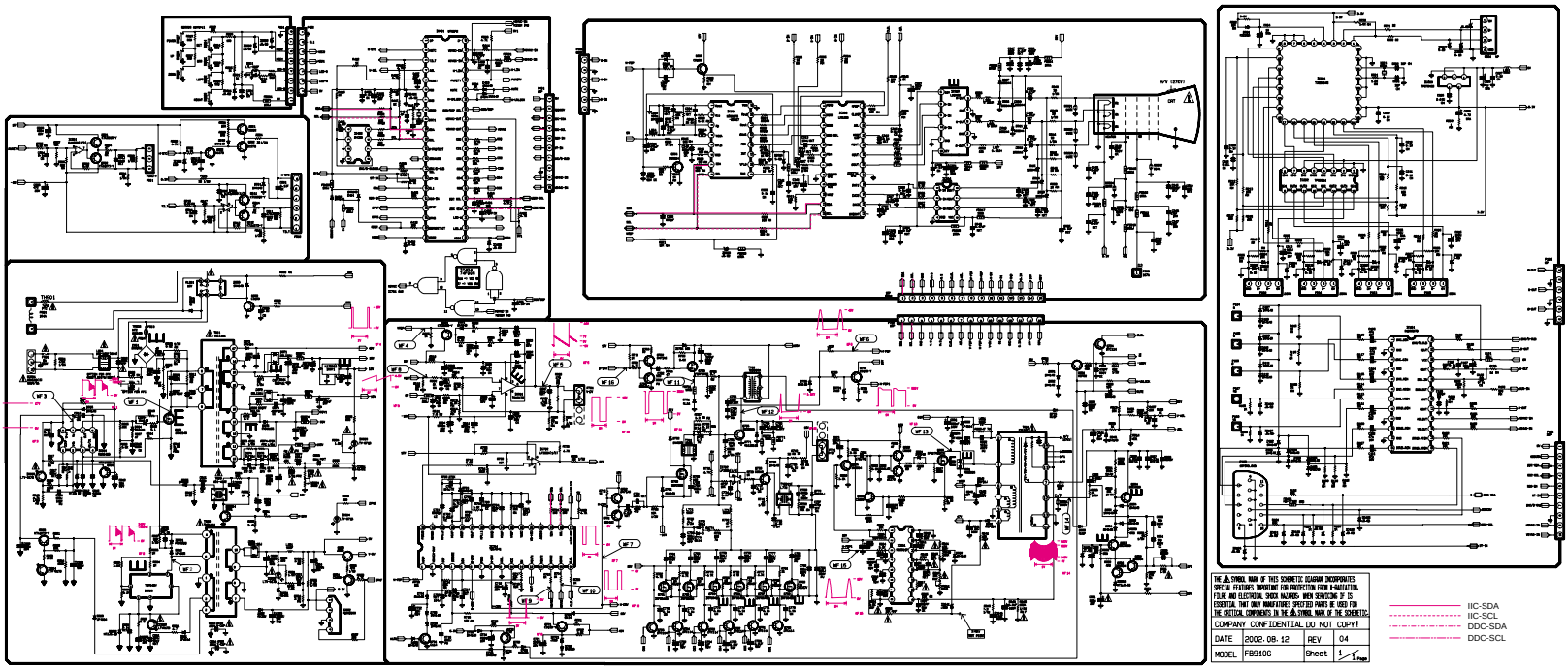
SCHEMATIC DIAGRAM



THE ⚠ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMATIC.

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DATE	2002.08.12	REV	04
MODEL	FB910G	Sheet	1 / 1 Page

NOTICE
Since this is a basic schematic diagram.
The value of components and some partial connection are
sucject to be changed for improvement without notice.

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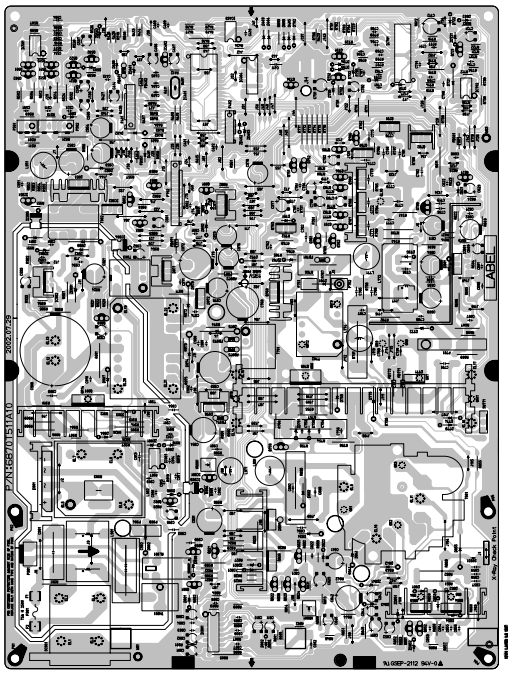
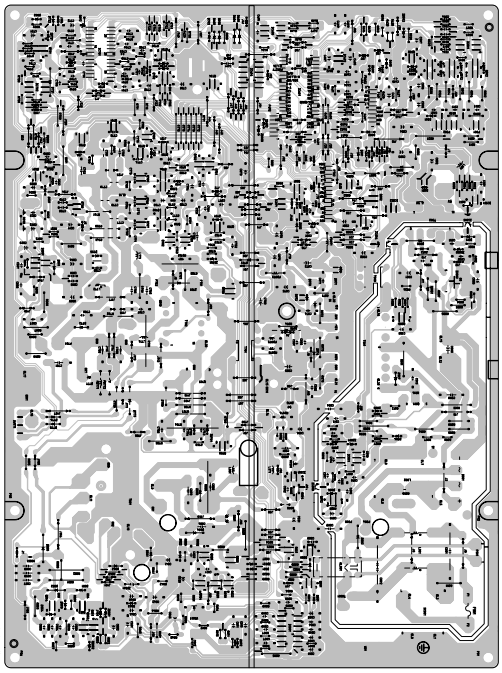
PRINTED CIRCUIT BOARD

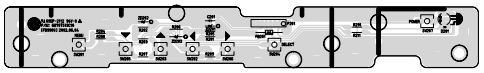
1. MAIN BOARD (Component Side)



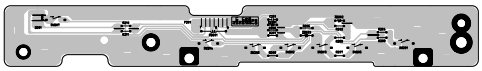
2. MAIN BOARD (Solder Side)



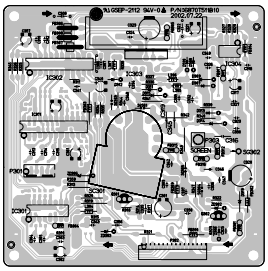
5. CONTROL BOARD (Component Side)



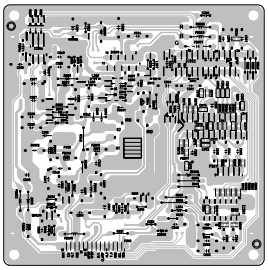
6. CONTROL BOARD (Solder Side)



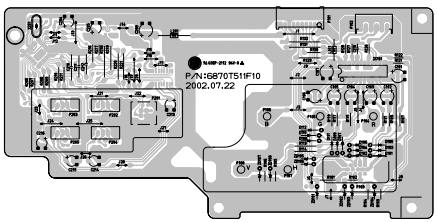
7. VIDEO BOARD (Component Side)



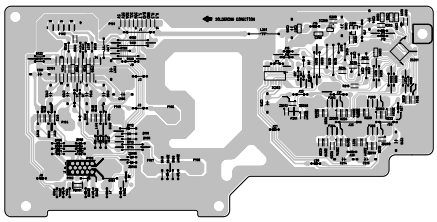
8. VIDEO BOARD (Solder Side)



3. INTERFACE BOARD (Component Side)



4. INTERFACE BOARD (Solder Side)



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